

A CATALOGUE  
OF  
INSECTICIDES AND  
FUNGICIDES

*compiled by*  
DONALD E. H. FREAR, Ph.D.

*Professor of Agricultural and Biological Chemistry,  
The Pennsylvania State College*

*With a Foreword by F. F. LININGER*

*Volume II*  
CHEMICAL FUNGICIDES  
AND PLANT INSECTICIDES



1948

WALTHAM, MASS., U.S.A.

*Published by the Chronica Botanica Company*





DONALD E. H. FREAR was born September 16, 1906, at South Eaton, Wyoming County, Pennsylvania. B.S., The Pennsylvania State College, 1926; M.S., University of New Hampshire, 1928; Ph.D., The Pennsylvania State College, 1937. Assistant in agricultural chemistry, University of New Hampshire, 1926-1928; Assistant Chemist, Rhode Island Agricultural Experiment Station, 1928-1930; Instructor, Assistant Professor and Associate Professor of agricultural and biological chemistry, The Pennsylvania State College, 1930-1944; Professor of agricultural and biological chemistry in charge of research on insecticides and fungicides 1944- ; Consultant, OSRD, 1943-1945; Member of Chemical Codification Subcommittee, National Research Council, 1945- ; Member, American Chemical Society, American Society of Biological Chemists, Association of Economic Entomologists, American Society for Horticultural Science, Phi Lambda Upsilon, Alpha Zeta, Gamma Sigma Delta, Sigma Xi; Author, "Chemistry of Insecticides and Fungicides."



ANNALES CRYPTOLOGAMICI et PHYTOPATHOLOGICI  
Volume VIII

CHEMICAL FUNGICIDES  
*and* PLANT INSECTICIDES

ANNALES CRYPTOGAMICI  
et PHYTOPATHOLOGICI  
*(incorporating Annales Bryologici)*

*edited by*

FRANS VERDOORN, Ph.D.

*Managing Editor, the Chronica Botanica Co.; Special  
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Chronica Naturae, Farlowia, Bryologist; Botanical Secretary,  
International Union of Biological Sciences.*

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*Wij en kennen den Heer en maker van het geheel  
Al niet meer verbeerlijken, als dat wij in alle zaken,  
hoe klein die ook in onse bloote oogen mogen zijn, als  
ze maar leven en wijsdom hebben ontfangen, zijn al  
uijsheit en volmaaktheit, met de uiterste verwondering  
sien uit steken.*

*Antoni van Leeuwenhoek*

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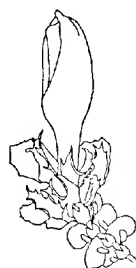
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First published MCMXLVIII  
By the Chronica Botanica Company  
of Waltham, Mass., U. S. A.

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## FOREWORD

*This compilation represents a portion of the work under Project 999 of the Pennsylvania Agricultural Experiment Station, begun during World War II in an effort to find new insecticides and fungicides to replace those made scarce by war restrictions on shipping and other disruptions of the normal flow of commercial materials. It was the opinion of the leaders of this project that before any concerted effort could be made to search for new pest-control chemicals, previous work in this field should be surveyed completely. This catalogue is a result of the survey.*

*Covering as it does the results of biological testing on a group of approximately 10,000 materials, this catalogue should be of wide use to scientists in the field of insecticides and fungicides. Studies on these pest-control materials have been greatly stimulated within recent years by the discovery of DDT, hexachlorocyclohexane and other new chemicals of high promise. Research work along these lines is assuming an increasingly important place in both industrial and institutional laboratories.*

*The work involved in the preparation of this catalogue differs considerably from that usually conducted under a research project of an Agricultural Experiment Station. It represents the collection and correlation of pertinent facts from a large mass of scientific information, accumulated over a period of years in one field of research, but scattered in many technical publications. With the tremendous increase in scientific knowledge, it will be necessary to condense and compile known facts frequently in future years, if the time of the workers is to be used to best advantage. In many cases, the bringing together of known facts is as important a contribution to research as the discovery of new information.*

*It is a pleasure, therefore, to commend the present catalogue to research workers in entomology, plant pathology, and chemistry. The large amount of time which Dr. FREAR has spent in the preparation of these volumes, particularly also in the extensive index of compounds which concludes this, the second volume of his work, will be more than repaid, in the aggregate, by the saving of effort on the part of many individual students and investigators who will be spared the necessity of long and tedious literature searches.*

F. F. LININGER, Director,  
The Pennsylvania Agricultural Experiment Station.

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PALLAS, a new serial, of which JESSEN's Botanik der Gegenwart und Vorzeit (1864/1948, p. 528, \$6.00) and DARWIN's Voyage with the Beagle (1839/1948, p. 615, \$4.75) form the first volumes, will consist of offset reprints of out-of-print scientific classics.

**The Chronica Botanica Co., Waltham, Massachusetts, U.S.A.**

— Established in Leyden, Zuid-Holland, in 1933 — Cables: Flora, Waltham, Mass., U.S.A. —

## PREFACE

*During recent years a great deal of research has been directed toward the finding of new materials for controlling insects and fungi. The discovery of rotenone, a natural product, and several promising synthetic organic chemicals, such as the organic thiocyanates, chloranil, and DDT, have intensified the search for other new and better insecticides and fungicides. The literature on the subject is already voluminous, and nearly every issue of the technical journals contains one or more papers dealing with the testing of new materials against insects and fungi.*

*There is no doubt that new pest-control substances are needed. Many of the commonly used materials are not highly efficient, and most of those which have high toxicity to the lower forms of life are toxic to man and other higher animals to a dangerous degree. Commercially, a rich prize awaits the discoverer of any new insecticide or fungicide which can be demonstrated to have properties superior to the presently used materials.*

*For the most part, the search for new insecticides and fungicides has been a rather haphazard affair. Certain plant families or chemical combinations of demonstrated toxicity have been investigated thoroughly, but outside of these limited fields, the search has been lacking in continuity of effort. At this institution a research project on new insecticides and fungicides was instituted several years ago. In an attempt to approach the problem from a more scientific point of view, it was decided (a) to make a thorough search of the published literature on the subject and (b) to correlate the results of these tests with various physical and chemical properties of the materials used in order to arrive, if possible, at some conclusions regarding the nature of toxic action.*

*The literature search involved the examination of many journals, from which approximately six thousand materials were obtained. An appeal to workers in the field for unpublished data (SCIENCE, December 31, 1943) resulted in the addition of several thousand more substances. It was felt that the publication of a catalogue of the materials thus collected, in a form available for all investigators working with insecticides and fungicides would be of considerable value: first, because it would collect in one place all or nearly all of the published results on tested materials, and would thus save time ordinarily spent in literature searches, and secondly, a brief summary of previous work would result in the elimination of duplication in further studies, making possible a tremendous saving in time and energy for research workers.*

*This, then, is the background for the present catalogue, and the reasons for its presentation. The compilation alone has involved a great deal of routine work, and on the completion of this phase there remained the problem of classification. This was solved by the expedient of a new system of classification, the details of which are given in the Introduction which follows this*

*Preface.* Unfortunately it was not possible to devise any extremely simple system of classification to accommodate the several thousand compounds included, but the system here presented will be easily understood by anyone with a knowledge of chemistry.

Although every effort has been made to make this catalogue as complete as possible up to January, 1944, there are undoubtedly numerous omissions. Since the main purpose of the compilation was to gather information on the less commonly used materials, no effort was made to cover the literature on widely used insecticides and fungicides, such as nicotine, lead arsenate, sulfur, and a number of others. The literature on some of these materials has been summarized adequately by other workers.

The compounds listed herein are named according to the system of nomenclature of the American Chemical Society, as used in CHEMICAL ABSTRACTS. In many cases in which the original authors gave only a general name, or one lacking in specificity, the most logical chemical constitution has been selected, and may be indicated as questionable. In some few cases the name or constitution given in the original publication has been found to be chemically impossible; these are so indicated. All plant names conform to those given in STANDARDIZED PLANT NAMES (second edition, 1942, J. H. McFarland Company, Harrisburg, Pa.).

This compilation would have been impossible without the splendid co-operation of a number of people. Among those who have given freely of their time and knowledge in the preparation of this catalogue are the following: Mrs. HELEN MILLER, Mrs. NORMA PIANKA, Miss FRANCES SUNDAY, Dr. HERMAN KING and Professor G. W. PEARCE. A number of workers of the Committee on Medical Research, Office of Scientific Research and Development, under the direction of Dr. C. C. STOCK, assisted materially in the naming of chemical compounds. Particular mention should be made to the invaluable contributions of Dr. E. J. SEIFERLE, especially on the classification and naming of the organic compounds published in this catalogue. Published and unpublished materials were contributed generously by nearly one hundred workers in the fields covered. Specific mention should be made of the extensive contributions of Dr. ROY HANSBERRY, Dr. E. D. WITMAN, Dr. ERWIN DICYAN, Dr. W. W. ALLEN, Dr. H. C. BREWER, Dr. J. G. HORSFALL, Dr. W. MCMAHON, Dr. J. M. LEMON and Dr. S. E. A. MCCALLAN. The author expresses his obligation and appreciation to all of these. It is the author's hope that if this catalogue serves a useful purpose, it may form the basis for other compendia. To this end he will welcome any further contributions of published or unpublished material, as well as suggestions or corrections of the present work.

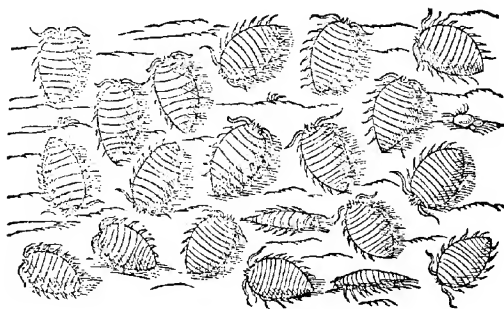
DONALD E. H. FREAR

State College, Pa.



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PIERRE MARIE ALEXIS MILLARDET (1838-1902), the discoverer of Bordeaux mixture, drawn by G. W. DILLON after a contemporary portrait. English translations of MILLARDET's classic papers on the prophylactic effects of a copper sulphate-lime mixture against the mildew of vines will be found in *Phytopathological Classics*, No. 3 (1933). "This discovery is probably as momentous as any event in the whole history of our efforts to control plant pathogens. This fungicide was the first to be used on a large scale the world over. The rapidity of its adoption and general use wherever certain diseases of fruits and vegetables occur, indicates how economically fortunate was MILLARDET's observation along the highways of Médoc." (SCHNEIDERMAN, *l.c.*).—The vignettes on pages xi, 19 and 154 have been reproduced from various editions of MATTIOLI's herbals. The tailpiece on page 96 was first used in LOBDEMAN's "The Spraying of Plants" (1896), the vignette on page 153 has been taken from an early volume of the *Gartenflora*.

# INTRODUCTION

## Arrangement of Compounds—Coding System:—

*General.*—The problem of classifying chemical compounds presents many difficulties. Any simple system, such as an alphabetical arrangement, does not take into consideration the chemical relationships involved, and makes the task of locating related compounds extremely difficult. On the other hand, the complexity of many compounds, particularly those of an organic nature, renders any attempt at complete cross-indexing cumbersome to the point of physical impossibility.

After considerable experimentation with various methods of classification, a new system has been evolved. Approximately 10,000 compounds have been classified by means of this system, with satisfactory results, and it is believed that anyone with an understanding of chemistry can use the system to classify compounds or to locate those already classified.

Briefly, the present system consists of assigning to each chemical compound a "code number". This code number is made up of the numbers assigned to each constituent group present in the compound, according to the prearranged code list given below. In use, the constituent groups in each compound to be coded are assigned numbers beginning with the one bearing the lowest number, and followed by the other constituent groups in numerical order. The length of the code number for any given compound will depend upon the variety of constituent groups present in that particular compound.

### (CH)ONSX

Bromosulfonamides	.....—SO <sub>2</sub> NHBr	1
Chlorosulfonamides	.....—SO <sub>2</sub> NHCl	3
Fluorosulfonamides	.....—SO <sub>2</sub> NHF	5
Iodosulfonamides	.....—SO <sub>2</sub> NHI	7
Halosulfonamides	.....—SO <sub>2</sub> NHX	9
Mixed	.....—SO <sub>2</sub> NBrCl	15
	.....—SO <sub>2</sub> NBrF	16
	.....—SO <sub>2</sub> NBrI	17
	.....—SO <sub>2</sub> NCIF	18
	.....—SO <sub>2</sub> NClI	19
	.....—SO <sub>2</sub> NFI	20
Sulfamyl halides	.....H <sub>2</sub> NO.SX	22

### (CH)ONS

Amidosulfides	.....—CONHSNCO—	48
Oxothiocyanates		
(oxoisothiocyanates)	.....—CONCS(—COSCN)	52
Sulfonamides	.....—SO <sub>2</sub> NH <sub>2</sub>	56

Sulfamides .....	$H_2NSO_2NH_2$ .....	57
Hydrazine sulfonates .....	$H_2NNHSO_2H$ .....	60
Sulfonyl hydrazines .....	$H_2NNHO_2S-$ .....	61
Hydrazine sulfates .....	$H_2NNHS(:O)OH$ .....	62
Sulfamates .....	$H_2NSO_3H$ .....	65
Thiourethanes .....	$H_2NC(:S)OH$ or $H_2NC(:O)SH$ .....	69

## (CH)ONX

Bromoamides .....	$-CONHBr$ .....	100
Chloroamides .....	$-CONHCl$ .....	102
Fluoroamides .....	$-CONHF$ .....	104
Iodoamides .....	$-CONHI$ .....	106
Haloamides .....	$-CONHX$ .....	108
Mixed .....	$-CONBrCl$ .....	115
	$-CONBrF$ .....	116
	$-CONBrI$ .....	117
	$-CONClF$ .....	118
	$-CONClI$ .....	119
	$-CONFI$ .....	120
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Chloroimides .....	$-C(:NCl)OH$ .....	126
Fluoroimides .....	$-C(:NF)OH$ .....	127
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Haloimides .....	$-C(:NX)OH$ .....	129

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## (CH)NSX

## (CH)ON

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6 Members in ring		
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Oxadiazines .....	$\text{C}_4\text{ON}_2$	231
Oxatriazines .....	$\text{C}_5\text{ON}_3$	232
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Dioxadiazines .....	$\text{C}_5\text{O}_2\text{N}_2$	235
Dioxatriazines .....	$\text{CO}_2\text{N}_3$	236
Trioxazines .....	$\text{C}_5\text{O}_3\text{N}$	237
Trioxadiazines .....	$\text{CO}_3\text{N}_2$	238
Tetroxazines .....	$\text{CO}_4\text{N}$	239
5 Members in ring		
Oxazoles (furomonazoles) .....	$\text{C}_4\text{ON}$	242
Oxadiazoles (azoxime, furozan, furo (bb.) diazole) .....	$\text{C}_5\text{ON}_2$	243
Oxatriazoles .....	$\text{CON}_3$	244
Dioxazoles .....	$\text{C}_5\text{O}_2\text{N}$	245
Dioxadiazoles .....	$\text{CO}_2\text{N}_2$	246
Trioxazoles .....	$\text{CO}_3\text{N}$	247
4 Members in ring		
Betaine .....	$\text{C}_2\text{ON}$	248

*(CH)OS*

Xanthates .....	$-\text{OCSSH}$	250
Sulfonic acids .....	$-\text{SO}_3\text{H}$	258
Sulfinic acids .....	$-\text{S}(:\text{O})\text{OH}$	261
Sulfones .....	$-\text{SO}_2-$	264
Sulfoxides .....	$-\text{SO}-$	265
Thiolates .....	$-\text{C}(:\text{O})\text{SH}$	267
Thionates .....	$-\text{C}(:\text{S})\text{OH}$	269

*Heterocyclic CHOS Compounds:—*

More than 6 members in ring.....		290
6 Members in ring		
Oxathianes .....	$\text{C}_4\text{OS}$	301
Oxadithianes .....	$\text{C}_5\text{OS}_2$	302
Oxatritthianes .....	$\text{C}_6\text{OS}_3$	303
Oxatetraithianes .....	$\text{COS}_4$	304
Dioxathianes .....	$\text{C}_5\text{O}_2\text{S}$	305
Dioxadithianes .....	$\text{C}_6\text{O}_2\text{S}_2$	306
Dioxatritthianes .....	$\text{CO}_3\text{S}_2$	307
Trioxathianes .....	$\text{C}_6\text{O}_3\text{S}$	308
Trioxadithianes .....	$\text{CO}_4\text{S}_2$	309
Tetroxathianes .....	$\text{CO}_5\text{S}$	310

## 5 Members in ring

Oxathiolanes .....	$C_4OS$	315
Oxadithiolanes .....	$C_4OS_2$	316
Oxatrithiolanes .....	$COS_3$	317
Dioxathiolanes .....	$C_3O_2S$	318
Dioxadithiolanes .....	$CO_2S_2$	319
Trioxathiolanes .....	$CO_3S$	320

*(CH)OX*

Haloformic acid .....	$XCOOH$ (R)	328
Acylbromides .....	$-COBr$	330
Acylchlorides .....	$-COCl$	331
Acylfluorides .....	$-COF$	332
Acyliodides .....	$-COI$	333
Unspecified acylhalides .....	$-COX$	334
Iodoso compounds .....	$-IO$	340
Iodoxy compounds .....	$-IO_2$	341
Iodonium compounds .....	$=IOH$	342
Oxonium halides .....	$\equiv OX$	350

*(CH)NS*

Thiuram disulfides .....	$H_2NC(:S)SSC(:S)NH_2$	360
Thiuram sulfides .....	$H_2NC(:S)SC(:S)NH_2$	365
Dithiocarbamates .....	$-SC(:S)NH_2$	370
	$-SC(:NH)SH$	373
Thiocarbazides .....	$H_2NNHCSNHNH_2$	374
Thiosemicarbazides .....	$H_2NNHCSNH_2$	375
Thioureas .....	$H_2NCSNH_2$	376
Isothioureas .....	$HSC(:NH)NH_2$	377
Thioamides .....	$-CSNH_2$	385
Thioimides .....	$-C(:NH)SH$	386
Sulfuramines .....	$-SNH_2$	390
Thiocyanates (rhodanates),		
mono-, .....	$-SCN$	401
poly-, .....	$(-SCN)_n$	402
Isothiocyanates, mono-, .....	$-NCS$	411
poly-, .....	$(-NCS)_n$	412

*Heterocyclic CHNS Compounds:—*

More than 6 members in ring.....	430
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## 6 Members in ring

Thiazines .....	$C_4NS$	440
Dithiazines .....	$C_4NS_2$	441
Trithiazines .....	$C_4NS_3$	442
Tetrathiazines .....	$CNS_4$	443
Thiadiazines .....	$C_3N_2S$	444
Dithiadiazines .....	$C_3N_2S_2$	445
Trithiadiazines .....	$CN_2S_3$	446
Thintriazines .....	$C_2N_3S$	447
Dithiatriazines .....	$CN_3S_2$	448
Thiatetrazines .....	$CN_4S$	449

## 5 Members in ring

Thiazoles .....	$C_3NS$	460
Dithiazoles .....	$C_3NS_2$	461

Trithiazoles .....	$\text{CNS}_3$ .....	462
Thiadiazoles .....	$\text{C}_2\text{N}_2\text{S}$ .....	463
Dithiadiazoles .....	$\text{CN}_2\text{S}_2$ .....	464
Thiatriazoles .....	$\text{CN}_2\text{S}$ .....	465

 $(CH)NX$ 

Azohaloamides .....	$\text{XN}:\text{C}(\text{NH}_2)\text{N}:\text{NC}(\text{NH}_2):\text{NX}$ ..	472
Bromoamines .....	$-\text{NHBr}$ .....	475
Chloroamines .....	$-\text{NHCl}$ .....	477
Fluoroamines .....	$-\text{NHF}$ .....	479
Iodoamines .....	$-\text{NHI}$ .....	481
Haloamines .....	$-\text{NHX}$ .....	483
Bromochloroamines .....	$-\text{NBrCl}$ .....	485
Bromofluoroamines .....	$-\text{NBrF}$ .....	486
Bromiodoamines .....	$-\text{NBrI}$ .....	487
Chlorofluoroamines .....	$-\text{NClF}$ .....	488
Chloriodoamines .....	$-\text{NClI}$ .....	489
Fluoriodoamines .....	$-\text{NFI}$ .....	490
Halogen imines .....	$=\text{NX}$ .....	494

 $(CH)SX$ 

Sulfur bromides .....	$-\text{SBr}$ .....	520
Sulfur chlorides .....	$-\text{SCl}$ .....	521
Sulfur fluorides .....	$-\text{SF}$ .....	522
Sulfur iodides .....	$-\text{SI}$ .....	523
Sulfur halides .....	$-\text{SX}$ .....	524

 $(CH)O$ 

Carboxylic acids, free, mono-, .....	$-\text{COOH}(\text{M})$ .....	541
di-, .....	$(-\text{COOH})_2$ .....	542
tri-, .....	$(-\text{COOH})_3$ .....	543
.....	$(-\text{COOH})_n$ .....	544
Carboxylic esters, mono-, .....	$-\text{COOR}$ .....	551
di-, .....	$(-\text{COOR})_2$ .....	552
tri-, .....	$(-\text{COOR})_3$ .....	553
.....	$(-\text{COOR})_n$ .....	554
Aldehydes, mono-, .....	$-\text{CHO}$ .....	561
di-, .....	$(-\text{CHO})_2$ .....	562
tri-, .....	$(-\text{CHO})_3$ .....	563
.....	$(-\text{CHO})_n$ .....	564
Ketones, mono-, .....	$-\text{CO}-$ .....	571
di-, .....	$(-\text{CO}-)_2$ .....	572
tri-, .....	$(-\text{CO}-)_3$ .....	573
.....	$(-\text{CO}-)_n$ .....	574
Hydroxy compounds, mono-, .....	$-\text{OH}$ .....	581
di-, .....	$(-\text{OH})_2$ .....	582
tri-, .....	$(-\text{OH})_3$ .....	583
.....	$(-\text{OH})_n$ .....	584
Phenates .....	$-\text{OM}$ .....	588
Ethers, mono-, .....	$-\text{O}-$ .....	591
di-, .....	$(-\text{O}-)_2$ .....	592
tri-, .....	$(-\text{O}-)_3$ .....	593
.....	$(-\text{O}-)_n$ .....	594
Peroxides (organic only) .....		596

*Heterocyclic CHO Compounds:—*

More than 6 members in ring.....	610
6 Members in ring	
Monoxane (pyran) .....C <sub>4</sub> O .....	620
Dioxanes .....C <sub>4</sub> O <sub>2</sub> .....	621
Trioxanes .....C <sub>4</sub> O <sub>3</sub> .....	622
5 Members in ring	
Furan .....C <sub>4</sub> O .....	625
Dioxolanes .....C <sub>3</sub> O <sub>2</sub> .....	626
4 Members in ring	
Oxetane (trimethylene oxide; propylene oxide) .....C <sub>3</sub> O .....	630
3 Members in ring	
Oxirane (ethylene oxide) .....C <sub>2</sub> O .....	632
Heterocyclic compounds containing a heteroatom in addition to O (P, B, As, etc.) in ring .....COZ .....	640

(CH)N

Diazoamino compounds (triazines)..HN:NNH <sub>2</sub> .....	650
Hydrazines .....H <sub>2</sub> NNH <sub>2</sub> .....	657
Hydrazones .....=NNH <sub>2</sub> .....	659
Azo, diazo compounds .....—N:N— .....	665
Biguanides .....H <sub>2</sub> NC(:NH)NHC(:NH)NH <sub>2</sub> ..	667
Guanidines .....H <sub>2</sub> NH(:NH)NH <sub>2</sub> .....	668
Cyanamides .....=NCN .....	670
Amines, primary, mono-, .....—NH <sub>2</sub> .....	671
di-, .....(—NH <sub>2</sub> ) <sub>2</sub> .....	672
tri-, .....(—NH <sub>2</sub> ) <sub>3</sub> .....	673
.....(—NH <sub>2</sub> ) <sub>n</sub> .....	674
Amines, secondary, mono-, .....—NH— .....	681
di-, .....(—NH—) <sub>2</sub> .....	682
tri-, .....(—NH—) <sub>3</sub> .....	683
.....(—NH—) <sub>n</sub> .....	684
Amines, tertiary, mono-, .....—N= .....	691
di-, .....(—N=) <sub>2</sub> .....	692
tri-, .....(—N=) <sub>3</sub> .....	693
.....(—N=) <sub>n</sub> .....	694
Quaternary ammonium compounds..N .....	696
Imines .....=NH .....	700
Nitriles (cyanides), mono-, .....—CN .....	701
di-, .....(—CN) <sub>2</sub> .....	702
tri-, .....(—CN) <sub>3</sub> .....	703
.....(—CN) <sub>n</sub> .....	704
Isonitriles (isocyanides), mono-, ...—NC .....	711
di-, .....(—NC) <sub>2</sub> .....	712
tri-, .....(—NC) <sub>3</sub> .....	713
.....(—NC) <sub>n</sub> .....	714

*Heterocyclic CHN Compounds:—*

More than 6 members in ring.....	720
6 Members in ring	
Monazine (pyridine; piperidine)..C <sub>5</sub> N .....	730
Diazines .....C <sub>4</sub> N <sub>2</sub> .....	732



Triazines .....	$C_3N_3$	733
Tetrazines .....	$C_4N_4$	734
Pentazines .....	$CN_5$	735
5 Members in ring		
Azoles (pyrroles; pyrrolidine) .....	$C_4N$	740
Diazoles .....	$C_3N_2$	742
Triazoles .....	$C_2N_3$	743
Tetrazoles .....	$CN_4$	744
4 Members in ring		
Azetidine .....	$C_3N$	746
Uretidine .....	$C_2N_2$	747
3 Members in ring		
Aziridine .....	$C_2N$	750
Heterocyclic compounds containing a heteroatom in addition to N (P, B, As, etc.) in ring.....	$CNZ$	760

## (CH)S

Thiocarbonates .....	$HSC(:S)SH$	770
Carbithionates .....	$-CSSH$	774
Sulfides (thioethers) .....	$-S-$	781
Disulfides .....	$-SS-$	782
Polysulfides .....	$-S-$	783
Thiols (mercaptans), mono-, .....	$-SH$	791
di-, .....	$(-SH)_2$	792
tri-, .....	$(-SH)_3$	793
.....	$(-SH)_n$	794
Thioketones .....	$-CS-$	796
Sulfurized compounds .....		800
Sulfonium compounds .....		801

*Heterocyclic CHS Compounds:—*

More than 6 members in ring.....		810
6 Members in ring		
Thiapyran .....	$C_6S$	820
Dithianes .....	$C_4S_2$	821
Trithianes .....	$C_3S_3$	822
5 Members in ring		
Thiophene .....	$C_4S$	825
Dithioles .....	$C_3S_2$	826
4 Members in ring		
Thiethane .....	$C_2S$	830
3 Members in ring		
Thiirane .....	$C_2S$	834
Heterocyclic compounds containing a heteroatom in addition to S (P, B, As, etc.).....	$CSZ$	839

## (CH)X

Bromides (organic only), mono-, ...	$-Br$	841
di-, .....	$(-Br)_2$	842
tri-, .....	$(-Br)_3$	843
tetra-, .....	$(-Br)_4$	844
penta-, .....	$(-Br)_5$	845
hexa-, .....	$(-Br)_6$	846
.....	$(-Br)_n$	847

C <sub>n</sub> poly-, .....	994
C <sub>n</sub> mono-, .....	995
C <sub>n</sub> poly-, .....	996
C <sub>n</sub> mono-, .....	997
C <sub>n</sub> poly-, .....	998
C <sub>n</sub> mono-, .....	999
C <sub>n</sub> poly-, .....	1000
C <sub>n</sub> mono-, .....	1001
C <sub>n</sub> poly-, .....	1002
C <sub>n</sub> mono-, .....	1003
C <sub>n</sub> poly-, .....	1004
C <sub>n</sub> mono-, .....	1011
C <sub>n</sub> di-, .....	1012
C <sub>n</sub> tri-, .....	1013
C <sub>n</sub> tetra-, .....	1014
C <sub>n</sub> poly-, .....	1015
C <sub>n</sub> mono-, .....	1021
C <sub>n</sub> di-, .....	1022
C <sub>n</sub> tri-, .....	1023
C <sub>n</sub> tetra-, .....	1024
C <sub>n</sub> poly-, .....	1025
Alkyl (unspecified) .....	1027
<i>Degree of unsaturation (aliphatic only):—</i>	
One double bond .....	1030
Two double bonds	
Adjacent .....	1031
Conjugated .....	1032
Separate .....	1033
Three double bonds	
Conjugated .....	1035
Other .....	1036
Four double bonds	
Conjugated .....	1037
Other .....	1038
More than four double bonds.....	1039
Triple bonds—single .....	1040
Triple bonds—multiple .....	1041
R (unspecified) .....	1045
<i>Cations:—</i>	
Aluminum .....Al .....	1106
Ammonia .....NH <sub>3</sub> .....	1108
Ammonium .....NH <sub>4</sub> .....	1109
Antimony .....Sb .....	
Ionic .....	1110
Organic .....	1111
Arsenic .....As .....	
Ionic .....	1112
Organic .....	1113
Barium .....Ba .....	1114
Beryllium .....Be .....	1116
Bismuth .....Bi .....	
Ionic .....	1118
Organic .....	1119
Boron .....B .....	1120
Cadmium .....Cd .....	1124

Calcium .....	Ca .....	1126
Carbon, inorganic .....		1128
Cerium .....	Ce .....	1130
Cesium .....	Cs .....	1132
Chromium .....	Cr .....	1136
Cobalt .....	Co .....	1138
Copper .....	Cu .....	1142
Germanium .....	Ge .....	1148
Gold .....	Au .....	1150
Iron .....	Fe .....	1162
Lanthanum .....		1164
Lead .....	Pb .....	
Ionic .....		1166
Organic .....		1167
Lithium .....	Li .....	1168
Magnesium .....	Mg .....	1172
Manganese .....	Mn .....	1174
Mercury .....	Hg .....	
Ionic .....		1176
Organic .....		1177
Molybdenum .....	Mo .....	1178
Neodymium .....		1180
Nickel .....	Ni .....	1182
Nitrogen .....	N .....	1184
Phosphorus .....	P .....	
Ionic .....		1192
Organic (phosphonium, etc.) .....		1193
Potassium .....	K .....	1196
Praseodymium .....		1198
Rubidium .....	Rb .....	1206
Selenium .....	Se .....	
Ionic .....		1212
Organic .....		1213
Silicon .....	Si .....	
Ionic .....		1214
Organic .....		1215
Silver .....	Ag .....	1216
Sodium .....	Na .....	1218
Strontium .....	Sr .....	1220
Sulfur, inorganic .....	S .....	1222
Tellurium .....	Te .....	
Ionic .....		1226
Organic .....		1227
Thallium .....	Tl .....	1228
Thorium .....		1230
Tin .....	Sn .....	
Ionic .....		1234
Organic .....		1235
Titanium .....	Ti .....	1236
Tungsten .....	W .....	1238
Uranium .....	U .....	1240
Vanadium .....	V .....	1242
Yttrium .....		1243
Zinc .....	Zn .....	1244
Zirconium .....		1245
Unspecified metal .....		1246

*Anions:—*

Aluminate .....	$-\text{AlO}_2$ .....	1250
Antimonate .....	$-\text{SbO}_2$ .....	1252
Arsenate, ortho-, .....	$\equiv\text{AsO}_4$ .....	1254
Arsenate, meta-, .....	$-\text{AsO}_4$ .....	1255
Arsenate, pyro-, .....	$\equiv\text{As}_2\text{O}_7$ .....	1256
Arsenide .....	$\equiv\text{As}$ .....	1258
Arsenite, ortho-, .....	$\equiv\text{AsO}_3$ .....	1260
Arsenite, meta-, .....	$-\text{AsO}_2$ .....	1261
Azide .....	$-(\text{N}_3)$ .....	1264
Bismuthate .....	$-\text{BiO}_2$ .....	1268
Borate .....	$\equiv\text{BO}_3$ .....	1270
Borate, tetra-, .....	$-\text{B}_4\text{O}_7$ .....	1271
Boride .....	$-(\text{B}_2)$ .....	1272
Bromate .....	$-\text{BrO}_3$ .....	1274
Bromide, inorganic, .....	$-\text{Br}$ .....	1276
Bromoselenate .....	$-\text{SeBr}_4$ .....	1278
Carbide .....	$\equiv\text{C}$ .....	1284
Carbonate .....	$-\text{CO}_3$ .....	1286
Chlorate .....	$-\text{ClO}_3$ .....	1288
Chlorate, per-, .....	$-\text{ClO}_4$ .....	1289
Chloride, inorganic, .....	$-\text{Cl}$ .....	1291
Chlorite .....	$-\text{ClO}_2$ .....	1293
Chlorite, hypo-, .....	$-\text{ClO}$ .....	1294
Chromate .....	$-\text{Cr}_2\text{O}_7$ .....	1296
Chromate, di-, .....	$-\text{Cr}_2\text{O}_7$ .....	1297
Chromate, per-, .....	$\equiv\text{CrO}_4$ .....	1298
Cobalticyanide .....	$\equiv\text{Co}(\text{CN})_6$ .....	1300
Cyanate, inorganic, .....	$-\text{OCN}$ .....	1301
Cyanate, iso-, inorganic, .....	$-\text{NCO}$ .....	1302
Cyanide, inorganic, .....	$-\text{CN}$ .....	1303
Cyanide, iso-, inorganic, .....	$-\text{NC}$ .....	1304
Cyanamide, inorganic, .....	.....	1305
Dithionate .....	$\equiv\text{S}_2\text{O}_6$ .....	1306
Ferricyanide .....	$\equiv\text{Fe}(\text{CN})_6$ .....	1308
Ferrocyanide .....	$\equiv\text{Fe}(\text{CN})_6$ .....	1309
Fluoaluminate .....	.....	1310
Fluoborate (Borofluoride) .....	$-\text{BF}_4$ .....	1311
Fluoride, inorganic, .....	$-\text{F}$ .....	1312
Fluosilicate (Silicofluoride) .....	$-\text{SiF}_6$ .....	1313
Fluosulfonic acid .....	.....	1314
Fluotitanate (Titanofluoride) .....	$-\text{TiF}_6$ .....	1315
Fluozirconate .....	$-\text{ZrF}_6$ .....	1317
Halide, unspecified inorganic, .....	.....	1321
Hydroxide .....	$-\text{OH}$ .....	1325
Iodate .....	$-\text{IO}_3$ .....	1330
Iodate, per-, .....	$-\text{IO}_4$ .....	1331
Iodide, inorganic, .....	$-\text{I}$ .....	1333
Manganate .....	$\equiv\text{MnO}_4$ .....	1337
Manganate, per-, .....	$-\text{MnO}_4$ .....	1338
Molybdate .....	$\equiv\text{MoO}_4$ .....	1340
Nitrate .....	$-\text{NO}_3$ .....	1341
Nitride, inorganic, .....	$\equiv\text{N}$ .....	1342
Nitrite .....	$-\text{NO}_2$ .....	1343
Nitroprusside .....	$\equiv\text{Fe}(\text{CN})_5\text{NO}$ .....	1345
Oxide, inorganic, .....	$=\text{O}$ .....	1350

Peroxide .....		1351
Phosphate, ortho-, .....	$\equiv \text{PO}_3$ .....	1356
Phosphate, meta-, .....	$-\text{PO}_3$ .....	1357
Phosphate, pyro-, .....	$\equiv \text{P}_2\text{O}_7$ .....	1358
Phosphate, hypo-, .....	$=\text{PO}_3$ .....	1360
Phosphide .....	$\equiv \text{P}$ .....	1362
Phosphite .....	$\equiv \text{PO}_2$ .....	1364
Phosphite, hypo-, .....	$\equiv \text{PO}_2$ .....	1365
Phosphorylamide .....	$-\text{O}_2\text{P}(\text{NH}_2)_2$ .....	1366
Phosphomolybdate .....		1367
Phosphotungstates .....		1368
Plumbate, ortho-, .....	$\equiv \text{PbO}_4$ .....	1369
Plumbate, meta-, .....	$=\text{PbO}_3$ .....	1370
Selenate .....	$=\text{SeO}_4$ .....	1376
Selenide .....	$=\text{Se}$ .....	1378
Selenite .....	$=\text{SeO}_3$ .....	1380
Silicate .....	$=\text{SiO}_3$ .....	1384
Silicide .....	$\equiv \text{Si}$ .....	1386
Stannate .....	$=\text{SnO}_3$ .....	1388
Sulfate .....	$=\text{SO}_4$ .....	1389
Sulfate, per-, .....	$=\text{S}_2\text{O}_8$ .....	1390
Sulfamate .....	$-\text{SO}_2\text{NH}_2$ .....	1391
Sulfide, inorganic, .....	$=\text{S}$ .....	1392
Sulfite, .....	$=\text{SO}_3$ .....	1393
Sulfite, hypo-, .....	$=\text{S}_2\text{O}_4$ .....	1394
Sulfite, pyro-, (Metabisulfite) .....	$=\text{S}_2\text{O}_5$ .....	1396
Tellurate .....	$=\text{TeO}_4$ .....	1400
Telluride .....	$=\text{Te}$ .....	1402
Tellurite .....	$=\text{TeO}_3$ .....	1404
Thioantimonate .....	$=\text{SbS}_3$ .....	1408
Thioarsenate .....	$=\text{AsS}_3$ .....	1410
Thioarsenite .....	$=\text{AsS}_2$ .....	1412
Thiocyanate, inorganic, .....	$-\text{SCN}$ .....	1405
Thiocyanate, iso-, inorganic, .....	$-\text{NCS}$ .....	1406
Thiophosphates .....		1413
Thionates, poly-, .....	$=\text{S}_x\text{O}_6$ .....	1409
Thiosulfate .....	$=\text{S}_2\text{O}_3$ .....	1414
Thiocarbonate .....	$=\text{CS}_3$ .....	1415
Titanate, ortho-, .....	$\equiv \text{TiO}_4$ .....	1416
Titanate, meta-, .....	$=\text{TiO}_3$ .....	1418
Tungstate .....	$=\text{WO}_4$ .....	1420
Uranate .....	$=\text{UO}_4$ .....	1426
Vanadate .....	$=\text{VO}_4$ .....	1430
Zincate .....	$=\text{ZnO}_3$ .....	1435
Zirconate .....	$=\text{ZrO}_3$ .....	1440
Unspecified anion .....		1450

Reference to the code list shows that organic groups are selected first and inorganic last, this constituting the first subdivision. Compounds containing both organic and inorganic groups are then accommodated with numbers from both these large divisions.

*Organic compounds.*—For the purposes of this classification, organic groups are defined as those which contain carbon and hydrogen alone.

or in combination with one or more of the elements oxygen, nitrogen, sulfur, and the halogens.

The list of constituent organic groups is broken down into 16 divisions, based upon the number of elements present. The first division contains those constituent groups composed of all of the elements, C, H, O, N, S, and X (halogen) and each successive division includes groups of less complexity. The next four divisions thus contain the groups with five elements, (CH)ONS, (CH)ONX, (CH)OSX, and (CH)NSX. Following this are the groups with four elements, then three, and finally the hydrocarbon skeleton of the compound. This is further subdivided into carbocyclic and noncarbocyclic groups.

Parenthetically it should be noted that the presence of O, N, S, or X in the constituent group determines into which division the group falls, and is thus the criterion of the complexity of the group. The carbon atom may or may not occur in each group, and if present, acts solely as a "nucleus" from which depend the other elements; hydrogen may be present coincidentally to complete the valence requirements of one or more of the elements present.

Only the parent combinations are indicated. It is understood that substitutions may, and commonly are made at one or more points in the group. For example, carbazides may have organic radicals attached in place of one or more of the six hydrogen atoms present. Metallic elements may also replace hydrogen in acid groups.

*Subclassification.*—Under each division heading are listed the various constituent groups containing these elements. While in general the whole table is arranged in order of decreasing complexity, within each division it frequently happens that groups are arranged on the basis of chemical similarity rather than actual complexity. The first numbers in each division are assigned to the noncyclic combinations, followed by the heterocyclic structures containing the elements other than carbon characteristic of the division. Many code numbers have been left unassigned, and are available for new groups which may occur in the future use of the system.

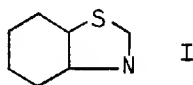
*Inorganic compounds.*—The inorganic groups are divided into those acting primarily as positive ions in water solution (cations) and those acting as negative ions (anions). Certain of the metallic elements combine with organic radicals in a carbon-to-metal linkage. Such combinations are given an "organic" code number to differentiate them from the "ionic" combinations found in inorganic salts and salts of organic acids.

*Specific instructions and conventions:—*

1) In considering a noncyclic combination of elements for classification, the largest group containing no more than isolated carbon atoms is considered as the unit. *These groups are chemical entities, and not necessarily functional groups.* It should be repeated that the *largest*

possible group is selected in each step of the breakdown. For example,  $-\text{CONH}_2$  is coded as amide, 185, rather than 571 and 671 both of which numbers appear later in the table than 185. Another example of this procedure is guanylylurea  $=\text{NC}(:\text{NH})\text{NHCON}=\text{}$ , which is given the number 173, instead of being broken down into guanidine and amide. A careful examination of the groups listed in the table will make such decisions obvious. In groups not containing the carbon atom as an integral part thereof, the extent of the group is limited by its attachment to the carbon structure, such as  $-\text{SO}_2\text{NH}-$  in substituted sulfonamides.

2) In classifying heterocyclic structures, the monocyclic ring is the unit to be selected, regardless of size, and other rings fused or otherwise attached to the heterocyclic structure are considered separately. Examples of this are benzothiazole (I), which is coded as a 5-membered ring,  $\text{C}_3\text{NS}$  (460) and a 6-membered fused carbocyclic ring (950).

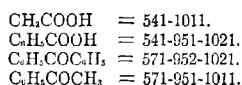


In complex heterocyclic compounds which have the heteroatom common to two or more rings, each ring is coded as though it were a separate entity, even though the common atom is considered twice. Rarely heterocyclic compounds containing an element other than O, N or S in the ring are encountered. These compounds (containing P, B, As, etc.) are grouped under numbers 640, 760, 839 or 895, depending upon the complexity of the ring.

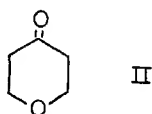
3) Noncyclic carbon chains are coded according to the total number of carbon atoms occurring together without interruption by some other element. Stated another way, the degree of branching does not affect the classification, isobutane having the same number as butane. Isolated carbon atoms occurring in a complex group are given the number of the  $\text{C}_1$  group. Thus urea is coded 183-1021.

4) It has already been mentioned that for certain classification purposes it is sometimes necessary to consider a single atom more than once. This "double coding" is done (in addition to the cases of the common heteroatom and urea mentioned above) in a number of other groups containing isolated carbon atoms. Probably the most common examples are the acid, aldehyde, and ketone groups. In these groups the carbon atom is coded as 1021 if attached only to cyclic structures, or is added to the balance of the acyclic carbon skeleton in noncyclic or mixed structures.

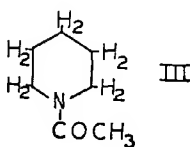
Thus we have:



When the carbon of a ketone group is an integral part of a cyclic structure, the ketone number (571) and the appropriate cyclic number are both assigned to the compound (II).



When a carbonyl group, for example, is attached to the heteroatom in a heterocyclic structure (III) a similar convention is followed:



5) Quaternary ammonium compounds are coded under number 696. This number is restricted to completely substituted ammonium compounds. Thus  $\text{R-N}(\text{CH}_3)_3\text{Cl}$  is given the 696 number, while  $\text{R-NH}(\text{CH}_3)_2\text{Cl}$  is classed as an amine (681). Quaternary derivatives of N-heterocyclic compounds come under paragraph (4) above. Hydrochloride-, hydrosulfate-, and other amine and quaternary compounds are coded as inorganic chlorides, sulfates, etc., rather than as  $(\text{CH})\text{NX}$  or  $(\text{CH})\text{ONS}$  groups. The distinction is rather obvious in this case.

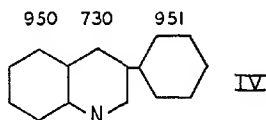
6) Provision is made (numbers 1030-1041) for the differentiation of saturated from unsaturated noncyclic compounds. With cyclic compounds of 6-members (cyclohexane, cyclohexadiene, and benzene) separate code numbers are assigned. Compounds like the quinones consisting of a six-membered ring with two double bonds in the ring by virtue of an attachment to an element outside the ring are considered to be benzene derivatives, rather than cyclohexadiene. In all other cyclic compounds, no distinction is made on the basis of saturation: thus pyridine and piperidine are both coded as 730, pyrrole and pyrrolidine as 740.



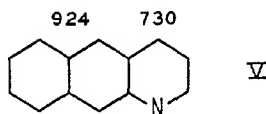
7) In several cases of the more commonly occurring groups provision is made for coding two, three, or more groups of the same kind. Triphenylbenzene, for example, is coded simply as 954. This procedure effects a more orderly arrangement of related compounds in the final classification. In these cases, the last member of each series is given the subscript *n*. This indicates either (a) a number of groups greater than the last preceding entry, or (b) an unspecified number of groups. Thus a compound containing three nitro groups is given number 208, while compounds containing four or more, or an unspecified number of nitro groups, is given number 209.

8) Organic radicals attached to multivalent inorganic ions are coded as single units, regardless of the valence of the inorganic ion. Calcium acetate,  $(\text{CH}_3\text{COO})_2\text{Ca}$ , is coded as 541-1011-1126. It should be noted that this applies only to inorganic ions, and that distinction is made between organic acids combined with metallic elements (541) and esters (551): similarly alcohols (581) and alcoholates (phenates, 588). Compounds with non-ionic inorganic atoms are coded according to the number of organic radicals present: for example, triphenyl phosphine  $(\text{C}_6\text{H}_5)_3\text{P}$  is coded 953-1193.

9) A distinction is made between benzene rings attached at one carbon atom (phenyl-, 951) and those fused to another cyclic structure at more than one carbon atom (benz-, 950). The compound given below (IV) is coded as shown.



The product of the fusion of a multiple carbocyclic system, such as naphthalene, to a heterocyclic ring is coded with the number of the carbocyclic structure to indicate the presence of this unit (V):



*Examples of coding.*—Below are given a few examples of coding. The constituent groups are separated by lines in order to make the process more easily understood.

999	581
Isoamyl alcohol; $(\text{CH}_3)_2\text{CHCH}_2\text{CH}_2$	OH.

951	591	1011
Phenetole; $\text{C}_6\text{H}_5$	O	$\text{C}_2\text{H}_5$ .

841	951	1021	671
o-Toluidine, 4-bromo-; Br	$\text{C}_6\text{H}_4$	$(\text{CH}_3)$	$\text{NH}_2$

951	186	1001
Benzamide, N-butyl-; $\text{C}_6\text{H}_5$	CONH	$\text{C}_4\text{H}_9$ .

(Note that the amide group is coded with both 186 and 1021).

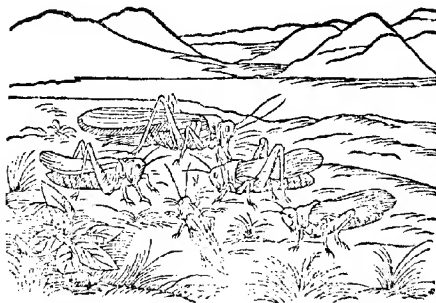
997	179
Butyraldehyde, $\alpha$ -ethyl-, semicarbazone; $(\text{C}_2\text{H}_5)\text{CHCH}$	1021
	NNHCONH <sub>2</sub>

*Catalogue listings.*—The compounds listed in this catalogue are arranged in order of their code numbers. This results in placing together all compounds with code numbers beginning with the same constituent groups. Compounds having the same first constituent numbers are then arranged in order of their second number, etc. In locating a given compound in the catalogue, probably the easiest way is to code the compound required, and then look under that code number in the catalogue. For example, if one desires to find acetic acid, it is coded as 541-1011, and this code number is located in its proper numerical sequence. In many cases it will not be necessary to work out the complete code number for a complex compound. For example, it is relatively easy to determine by inspection which constituent group takes precedence, and to locate the compound under the proper numerical heading. *For the convenience of readers who prefer to locate compounds by name, a complete alphabetical index of all compounds is given at the end of this volume.*

**Abbreviations, References, etc.**—In order to conserve space, abbreviations have been used rather freely in the preparation of this catalogue. The information for each compound is given in the following order: name (according to the Chemical Abstracts system), formula, synonyms, organisms against which the compound has been tested, with results, and finally, reference numbers.

The abbreviations used throughout this catalogue are as follows, in order of their appearance: (1) CU = constitution unspecified. This is used to indicate that the name of the compound as given was not sufficiently specific to establish the exact configuration. In cases where there was considerable question concerning the identity of the compound, or when it was impossible to assign even an empirical formula, the compound was placed in the miscellaneous group at the end of the section. (2) In stating the results of the toxicity tests, ST, MT, HT and NT indicate slight toxicity (10-30%), medium toxicity (30-80%), high toxicity (above 80%), and no toxicity (below 10%), respectively. Where the authors gave no indication of the degree of toxicity, T (toxic) has been used. The concentrations of chemicals tested have been given where known; thus "HT *Sclerotinia* at 1%" indicates that the compound when tested at 1 per cent concentration was highly toxic to *Sclerotinia*.

The reference numbers refer to the alphabetical list of references given at the end of each volume. To avoid confusion, each reference has been given a separate number. However, only those references cited in this volume are listed at the end of the volume. The letter P following a reference number indicates a patent. For convenience, the patents are listed separately by countries, and by numerical order, as well as alphabetically by patentees. *An alphabetical index of all compounds appearing in both volumes is given at the end of this volume.*





# **CHEMICAL FUNGICIDES**



# CHEMICAL FUNGICIDES

- 3-951-1021.  
p-Toluenesulfonamide, N,N-dichloro-;  $\text{CH}_3\text{C}_6\text{H}_4\text{SO}_2\text{NCl}_2$ . (N-Dichloro-p-toluenesulfonyl amide; dichloramine T).  
T *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 3-951-1021-1172.  
p-Toluenesulfonamide, N-chloro-, magnesium salt;  $[\text{CH}_3\text{C}_6\text{H}_4\text{S}(\text{NCl})\text{O}_2]_2\text{Mg}$ . (p-Toluenesulfonechlorimide, magnesium salt).  
T as dust for potatoes. 185P, 1178.
- 3-951-1021-1218.  
p-Toluenesulfonamide, N-chloro-, sodium salt;  $\text{CH}_3\text{C}_6\text{H}_4\text{SO}_2\text{NClNa}$ . (Chloramine T).  
T *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
9.  
Sulphonamides, halogenated.  
T potato scab. 185P, 1178.
- 56-186-671-951-1011.  
Sulfanilamide, N'-acetyl-;  $\text{H}_2\text{NC}_6\text{H}_4\text{SO}_2\text{NHCOCH}_3$ . (p-Amino benzene sulfonyl acetyl imide).  
T *Macrosporium sarcinaeforme*; NT *Sclerotinia fructicola*. 289.
- 58-460-571-950.  
Saccharin;  $\text{C}_7\text{H}_5\text{NO}_3\text{S}$ . (o-Sulfobenzoic imide; 3(2)-benzisoxulfonazalone).  
ST mold fungi. 476.
- 56-460-671-951.  
Sulfathiazole;  $\text{H}_2\text{NC}_6\text{H}_3\text{SO}_2\text{NHC}_2\text{H}_4\text{NS}$ . (Benzene-sulfonamide, p-amino-N-2-thiazolyl-).  
T *Sclerotinia fructicola*; NT *Macrosporium sarcinaeforme*. 283, 289.
- 56-671-730-950-951-1291.  
Acridine, 3-amino-6-benzenesulfonamido-, hydrochloride;  $\text{H}_2\text{NC}_6\text{H}_3\text{N}(\text{HCl})\text{NH}_2\text{SO}_2\text{C}_6\text{H}_4$ . (3-Benzene-sulfonamino-6-aminoacridine HCl). 354P.
- 56-671-730-951.  
Sulfapyridine;  $\text{H}_2\text{NC}_6\text{H}_3\text{SO}_2\text{NHC}_5\text{H}_4\text{N}$ . (Benzene-sulfonamide, p-amino-N-2-pyridyl-).  
T *Sclerotinia fructicola*; NT *Macrosporium sarcinaeforme*. 289.
- 56-671-951.  
Sulfanilamide;  $\text{H}_2\text{NC}_6\text{H}_4\text{SO}_2\text{NH}_2$ . (p-Aminobenzene-sulfonamide).  
T *Sclerotinia sclerotiorum* at 1-1,000; MT *Macrosporium sarcinaeforme*. 289, 717, 728.
- 56-951-1021.  
o-Toluenesulfonamide;  $\text{CH}_3\text{C}_6\text{H}_4\text{SO}_2\text{NH}_2$ . (o-Toluene sulfonyl amide).  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289, 1344P.
- 56-951-1021.  
p-Toluenesulfonamide;  $\text{CH}_3\text{C}_6\text{H}_4\text{SO}_2\text{NH}_2$ . 1344P.
- 56-952-1021.  
p-Toluenesulphonanilide;  $\text{CH}_3\text{C}_6\text{H}_4\text{SO}_2\text{NHC}_6\text{H}_5$ .  
ST mold fungi at 0.1%. 476.
- 56-975.  
Sulfonamides, aryl-.  
Soil or plant treatments for rust diseases. 389P, 1432.
- 60-581-851-951-1218.  
Hydrazine, 1-(3-chloro-4-hydroxyphenyl)-2-sulfo-, sodium salt;  $\text{HO}(\text{Cl})\text{C}_6\text{H}_3\text{NHNH}_2\text{SO}_3\text{Na}$ . (Na 3-chloro-4-hydroxyphenylhydrazinesulfonate).  
Prevents mold, etc. on seeds. 346P.
- 60-581-851-951-1218.  
Hydrazine, 1-(2-chloro-4-hydroxyphenyl)-2-sulfo-, sodium salt;  $\text{HO}(\text{Cl})\text{C}_6\text{H}_3\text{NHNH}_2\text{SO}_3\text{Na}$ . (Na 4-hydroxy-2-chlorophenylhydrazinesulfonate).  
Prevents mold, etc. on seeds. 346P.
- 60-581-951-1003-1021-1218.  
Thymol, 6-(2-sulfohydrazino)-, sodium salt;  $\text{HO}(\text{Cl})\text{C}_6\text{H}_3\text{C}_6\text{H}_4\text{C}_6\text{H}_4\text{NHNH}_2\text{SO}_3\text{Na}$ . (Na thymol-4-hydrazinesulfonate).  
Prevents mold, etc. on seeds. 346P.
- Hydrazine, 1-(p-hydroxyphenyl)-2-sulfo-, potassium salt;  $\text{HOC}_6\text{H}_4\text{NHNH}_2\text{SO}_3\text{K}$ . (K p-Hydroxyphenylhydrazine-sulfonate).  
Prevents mold, etc. on seeds. 346P.
- 60-581-952-1021-1218.  
Methane, 12-hydroxy-5-(2-sulfohydrazino)-phenyl-phenyl-, sodium salt;  $\text{C}_6\text{H}_5\text{CH}_2\text{C}_6\text{H}_4(\text{OH})\text{NHNH}_2\text{SO}_3\text{Na}$ . (Na 2-hydroxydiphenylmethane-5-hydrazinesulfonate).  
Prevents mold, etc. on seeds. 346P.
- 69-951-1011.  
Carbanilic acid, thiono-, ethyl ester;  $\text{C}_6\text{H}_5\text{NHC}(\text{S})\text{OC}_2\text{H}_5$ . (Phenylthiourethane; ethyl ester of phenyl thio carbanilic acid).  
MT mold fungi at 0.05%. 476.
- 151-951-1021.  
p-Toluenesulfonyl chloride;  $\text{CH}_3\text{C}_6\text{H}_4\text{SO}_2\text{Cl}$ . (p-Toluene sulfone chloride).  
NT *Macrosporium sarcinaeforme*. 289.
- 173-1022-1389.  
Urea, guanyl-, sulfate;  $\text{H}_2\text{NC}(\text{NH})\text{NHCONH}_2\text{H}_2\text{SO}_4$ .  
T *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 183-951-1021.  
Urea, phenyl-;  $\text{C}_6\text{H}_5\text{NHCONH}_2$ .  
ST mold fungi at 0.4%. 476.
- 183-989-1021.  
Urea, dodecyl-;  $\text{H}_2\text{NCONHC}_{12}\text{H}_{25}$ . (Lauryl urea). 593P.
- 183-1021.  
Urea;  $\text{H}_2\text{NCONH}_2$ .  
NT *Sclerotinia sclerotiorum* at 1-1,000. 728.
- 184-581-952-1021.  
Hydrazine, 1-benzoyl-2-(p-hydroxyphenyl)-;  $\text{HOC}_6\text{H}_4\text{NHNHCO}_2\text{C}_6\text{H}_5$ . (Benzoyl-p-hydroxyphenylhydrazine).  
Prevents mold, etc. on seeds. 346P.
- 184-581-952-1021.  
Hydrazine, 1-phenyl-2-sulcylolyl-;  $\text{HOC}_6\text{H}_4\text{CONHNH}_2$ . (Sulcylolylhydrazine).  
MT mold fungi at 0.02-0.1%. 476.
- 185-581-951-1021.  
Salicylamide;  $\text{HOC}_6\text{H}_4\text{CONH}_2$ .  
MT mold fungi at 0.1%. 476.
- 185-691-983-1011-1022-1030.  
Oleamide, N-(2-dimethylaminoethyl)-;  $\text{CH}_3(\text{CH}_2)_7\text{CH}_2\text{CH}(\text{CH}_2)_2\text{CONH}(\text{CH}_2)_2\text{N}(\text{CH}_3)_2$ . (Dimethyl oleylamido ethylamine). 1178, 1414P.
- 185-951-1021.  
Benzamide;  $\text{C}_6\text{H}_5\text{CONH}_2$ .  
MT *Sclerotinia sclerotiorum* at 1-1,000. 728.
- 185-1011.  
Acetamide;  $\text{CH}_3\text{CONH}_2$ .  
NT *Sclerotinia sclerotiorum* at 1-1,000. 728.
- 185-1011-1177.  
Acetamide, mercury derivative. 786P.
- 185-1021.  
Formamide;  $\text{HCONH}_2$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 185-1045-1177.  
Amides, mercury derivatives. 786P.
- 186-189-1021-1045.  
Urethanes, n-aryl-;  $\text{R}'\text{CONHCOOR}$ .  
Also bactericide. 311P, 312P.
- 186-264-696-852-953-1011-1023-1291.  
Ammonium chloride, benzyl-;  $\text{[p-(3,4-dichloro-benzenesulfonyl)-phenyl]-carbamylmethyl}$  } -dimethyl-;

- $C_6H_5CH_2N(CH_3)_2(Cl)CH_2CONHC_6H_4SO_3C_6H_4Cl_2$ .  
Also bactericide. 519P.
- 186-401-591-696-851-952-1012-1023-1291.  
Ammonium chloride, [p-(p-chlorophenoxy)-phenyl-carbamylmethyl]dimethyl-(2-thiocanoethyl)-;  $ClC_6H_4OC_6H_4NHCOCH_2N(CH_3)_2(Cl)CH_2CH_2SCN$ . 529P.
- 186-541-581-952-1022.  
m-Aminobenzoic acid, N-salicyloyl-;  $HOC_6H_4CONH-C_6H_4COOH$ . (Salicyl-m-aminobenzoic acid).  
NT mold fungi at 0.1%. 476.
- 180-541-582-952-1022.  
Salicylic acid, 5-amino-, N-salicyloyl-;  $HOC_6H_4CO-NHC_6H_4(OH)COOH$ .  
ST mold fungi at 0.1%. 476.
- 186-541-730-1022-1027.  
Cinchomeranamide, N-alkyl-;  $HOCC_6H_4N$  (CONHR). (Iso-quinoline acid amide). 771AP.
- 186-541-730-1022-1027.  
Lutidinamide, N-alkyl-;  $HOCC_6H_4N$  (CONHR).  
Lutidine acid amide. 771AP.
- 186-541-730-1022-1027.  
Quinolnamide, N-alkyl-;  $HOCC_6H_4N$  (CONHR).  
(Quinoline acid amide). 771AP.
- 186-541-951-1001.  
Oranilic acid;  $C_6H_5NHCOCOOH$ .  
ST mold fungi at 0.3%. 476.
- 186-541-951-1011-1021-1142.  
Hippuric acid, copper salt;  $(C_6H_5CONHCH_2COO)_2Cu$ .  
(Copper hippurate).  
T spores of *Fenturia inaequalis*. 905.
- 186-541-951-1011-1218.  
Oranilic acid, sodium salt;  $C_6H_5NHCOCOONa$ .  
ST mold fungi at 0.3%. 476.
- 186-541-951-1012-1021-1177.  
p-Acetotoluide, 2-acetoxymercuri-;  $CH_3C_6H_4(NHCO-CH_3)HgOOCCH_3$ . (2-Acetoxymercuri-acet-p-toluidide).  
ST mold fungi at 0.01%. 476.
- 180-541-951-1012-1177.  
Acetanilide, o-acetoxymercuri-;  $CH_3CONHC_6H_4Hg-OOCCH_3$ .  
MT mold fungi at 0.01% and ST at 0.005%. 476.
- 186-541-951-1012-1177.  
Acetanilide, p-acetoxymercuri-;  $CH_3CONHC_6H_4Hg-OOCCH_3$ .  
HT mold fungi at 0.005%. 476.
- 180-542-730-1023-1027.  
Berberonamide, N-alkyl-;  $(HOOC)_2C_6H_2N$  (CONHR).  
(Berberonic acid amide). 771AP.
- 186-551-891-990-1011-1021.  
Glycine, N-fluorobenzoyl-, methyl ester;  $C_6H_5FCONHCH_2COOCH_3$ . (Monofluorobenzoyl acid-methylglycinate).  
345P.
- 186-571-591-696-853-953-1012-1022-1291.  
Ammonium chloride, { [p-(4-chlorophenoxy)-phenyl]-carbamylmethyl }-(2,5-dichlorophenyl)-dimethyl-;  $ClC_6H_4COCH_2N(CH_3)_2(Cl)CH_2CONHC_6H_4OC_6H_4Cl$ .  
Also bactericide. 519P.
- 186-571-696-852-953-1011-1024-1291.  
Ammonium chloride, [p-(4-chlorobenzoyl)-phenyl-carbamylmethyl]-(p-chlorobenzoyl)-dimethyl-;  $ClC_6H_4COC_6H_4NHCOCH_2N(CH_3)_2(Cl)CH_2Cl$ .  
Also bactericide. 519P.
- 186-571-696-954-1012-1025-1291.  
Benzophenone, 4,4'-bis[α-(benzyl)dimethyl-ammonium chloride]-acetamide)-;  $[C_6H_5CH_2N(CH_3)_2(Cl)CH_2CONHC_6H_4-]_2CO$ . 519P.
- 184-571-851-951-1001.  
Acetacetanilide, o-chloro-;  $CH_3COCH_2CONHC_6H_4Cl$ .  
NT *Macrosporium sarcinaeforme*; ST *Sclerotinia fructicola*. 289.
- 186-571-951-1001.  
Acetacetanilide;  $C_6H_5NHCOCH_2COCH_3$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 189-571-951-1001-1142.  
Acetacetanilide, isomer derivative.  
T *Macrosporium sarcinaeforme*. 717.
- 186-581-591-952-1022.  
Salicyl-o-aniside;  $HOC_6H_4CONHC_6H_4OCH_3$ . (Salicyl-o-anisidide).  
T mold fungi at 0.1%. 52P, 476.
- 186-581-851-952-1021.  
Salicylanilide, 4'-chloro-;  $HOC_6H_4CONHC_6H_4Cl$ . (Salicyl-p-chloroanilide).  
T mold fungi at 0.1%. 476.
- 186-581-851-952-1021.  
Salicylanilide, 5-chloro-;  $HO(Cl)C_6H_4CONHC_6H_5$ . 52P.
- 186-581-924-951-1021.  
Salicylanilide, N-l-naphthyl-;  $C_{10}H_7NHCOCH_4OH$ . (Salicyl-α-naphthylamide).  
ST mold fungi at 0.1%. 476.
- 186-581-924-951-1021.  
Salicylanilide, N-2-naphthyl-;  $C_{10}H_7NHCOCH_4OH$ . (Salicyl-β-naphthylamide).  
ST mold fungi at 0.1%. 476.
- 186-581-951-1011.  
Acetanilide, p-hydroxy-;  $HOC_6H_4NHCOCH_3$ .  
ST mold fungi at 0.5%. 476.
- 186-581-952-1021.  
Salicylanilide;  $HOC_6H_4CONHC_6H_5$ . ("Shirlan"; o-hydroxybenzanilide).  
MT mold fungi at 0.005%. 52P, 476, 931.
- 186-581-952-1021.  
Benzanilide, 4-hydroxy-;  $HOC_6H_4CONHC_6H_5$ . (p-Hydroxybenzanilide).  
ST mold fungi at 0.1%. 476.
- 186-581-952-1022.  
Salicyl-o-toluide;  $CH_3C_6H_4NHCOCH_3OH$ . (Salicyl-o-toluidide).  
ST cotton mildew fungi. 52P, 476.
- 186-581-952-1022.  
Salicyl-p-toluide;  $CH_3C_6H_4NHCOCH_3OH$ . (Salicyl-p-toluidide).  
MT mold fungi at 0.1%. 476.
- 186-581-952-1022.  
p-Cresotinanilide;  $CH_3C_6H_4(OH)CONHC_6H_5$ . (p-Cresotinanilide).  
ST mold fungi at 0.1%. 476.
- 186-582-952-1021.  
β-Resorcylianilide;  $C_6H_3(OH)_2CONHC_6H_5$ . 52P.
- 186-582-953-1022.  
m-Phenylenediamine, N,N'-disalicyloyl-;  $C_6H_4(NHC_6H_4OH)_2$ . (Disalicyl-m-phenylene-diamide).  
ST mold fungi at 0.1%. 476.
- 186-582-953-1022.  
p-Phenylenediamine, N,N'-disalicyloyl-;  $C_6H_4(NHC_6H_4OH)_2$ . (Disalicyl-p-phenylene-diamide).  
ST mold fungi at 0.1%. 476.
- 186-582-954-1022.  
4,4'-Bisalicylanilide;  $(HOC_6H_4CONHC_6H_4)_2$ . (Disalicylbenzidine).  
ST mold fungi at 0.1%. 476.
- 186-588-952-1021-1218.  
Salicylanilide, sodium derivative;  $NaOC_6H_4CONHC_6H_5$ . ("Shirlan S").  
HT mold fungi at 0.02% and MT at 0.005%;  
T several species wood-destroying fungi. 476, 655.
- 186-591-696-851-953-1011-1023-1291.  
Ammonium chloride, benzyl { [p-(p-chlorophenoxy)-phenyl]-carbamylmethyl } dimethyl-;  $ClC_6H_4OC_6H_4NHCOCH_2N(CH_3)_2(Cl)CH_2C_6H_5$ . 519P.
- 186-591-696-852-953-1003-1023-1291.  
Ammonium chloride, 2-chlorobenzyl- { [p-(p-chlorophenoxy)-phenyl]-carbamylmethyl } dimethyl-;  $ClC_6H_4CH_2N(CH_3)_2(Cl)CH_2(CH_2)CONHC_6H_4OC_6H_4Cl$ .  
Also bactericide. 519P.
- 186-591-696-852-953-1011-1024-1291.  
Ammonium chloride, benzyl- { [5-chloro-2-(p-chlorophenoxy)-phenyl]-carbamylmethyl } dimethyl-;  $ClC_6H_4OC_6H_4(Cl)NHCOCH_2N(CH_3)_2(Cl)CH_2C_6H_5$ .  
Also bactericide. 519P.
- 186-591-696-852-953-1011-1024-1291.  
Ammonium chloride, benzyl- { [5-chloro-2-(4,6-dichloro-o-toloxyl)-phenyl]-carbamylmethyl } dimethyl-;  $ClC_6H_4CH_2N(CH_3)_2(Cl)CH_2CONHC_6H_4OC_6H_4(Cl)-CH_3$ .  
Also bactericide. 519P.
- 186-591-696-853-953-1011-1024-1291.  
Ammonium chloride, benzyl- { [5-chloro-2-(4,6-dichloro-o-toloxyl)-phenyl]-carbamylmethyl } dimethyl-;  $ClC_6H_4CH_2N(CH_3)_2(Cl)NHCOCH_2N(CH_3)_2(Cl)-CH_3$ .  
Also bactericide. 519P.



180-591-690-853-953-1011-1024-1291.

Ammonium chloride, 3,4-dichlorobenzyl- $\{p-(4\text{-chloro-}m\text{-toloxy})\text{-phenyl}\}\text{-carbamylmethyl}\}$ -dimethyl-,  $\text{Cl}_2\text{C}_6\text{H}_3\text{CH}_2\text{N}(\text{CH}_3)_2(\text{Cl})\text{CH}_2\text{CONHC}_6\text{H}_4\text{OC}_6\text{H}_4\text{H}_2\text{-(Cl)CH}_3$ .  
Also bactericide. 519P.

180-591-951-1012.

Phenacetin;  $\text{CH}_3\text{CONHC}_6\text{H}_4\text{OC}_6\text{H}_5$ . (Acetophenetidin; acet-phenetidine).

NT *Macrosporium arrenseforme*. 289.

180-592-690-954-1011-1023-1291.

Ammonium chloride, benzyl-dimethyl- $\{p\text{-}(p\text{-phenoxy-phenoxy})\text{-phenylcarbamylmethyl}\}$ -,  $\text{C}_6\text{H}_5\text{CH}_2\text{N}(\text{CH}_3)_2(\text{Cl})\text{CH}_2\text{CONHC}_6\text{H}_4\text{OC}_6\text{H}_4\text{OC}_6\text{H}_5$ .  
Also bactericide. 519P.

180-671-730-950-1011-1291.

Aeridine, 3-acetamido-6-amino-, hydrochloride;  $\text{H}_2\text{NC}_6\text{H}_3\text{N}(\text{NHCOCH}_3)\cdot\text{HCl}$ . (3-Acetyl-amino-6-aminoacridine-HCl). 354P.

180-671-730-950-1021-1045.

Aeridine, monoacetyldiamino-;  $\text{H}_2\text{NC}_6\text{H}_3\text{N}(\text{NHCOR})$ . 354P.

180-671-951-1011.

Acetanilide, *p*-amino-;  $\text{CH}_3\text{CONHC}_6\text{H}_4\text{NH}_2$ . (Monoacetyl-*p*-phenylaminamine).

MT *Macrosporium arrenseforme*; ST mold fungi at 0.3%; NT *Sclerotinia sclerotiorum* at 1-1,000. 289, 476, 717, 728.

180-671-953-1011.

Stearamide, *N*-(2-aminoethyl)-, plus dyestuffs;  $\text{C}_{17}\text{H}_{35}\text{CONHC}_2\text{H}_4\text{NH}_2$ . 1178, 1414P.

180-671-953-1011-1030.

Oleamide, *N*-(2-aminoethyl)-, plus dyestuffs;  $\text{C}_{17}\text{H}_{33}\text{CONHC}_2\text{H}_4\text{NH}_2$ . 1178, 1414P.

180-671-955-1003.

Palmitamide, *N*-aminopropyl-, plus dyestuffs;  $\text{C}_{16}\text{H}_{31}\text{CONHC}_3\text{H}_7\text{NH}_2$ . 1178, 1414P.

180-682-701-951-989-1003-1011-1022-1291

Acetanilide, 3(?) -methylaminododecyl-4(?) - $\{2\text{-cyanoethyl}\}\text{dimethylaminododecyl}\}$ -,  $\text{CH}_3\text{CONHC}_6\text{H}_4(\text{C}_{12}\text{H}_{25}\text{NHCN})\text{C}_2\text{H}_5\text{NHCN}(\text{Cl})(\text{CH}_2)_4\text{CH}_2\text{CH}_2\text{CN}$ . 529P.

180-691-696-731-953-1012-1025-1291.

Ammonium chloride, benzyl- $\{p\text{-}(p\text{-}(p\text{-dimethylaminoacetamido})\text{-phenylthio})\text{-phenylcarbamylmethyl}\}$ -dimethyl-,  $\text{C}_6\text{H}_5\text{CH}_2\text{N}(\text{CH}_3)_2(\text{Cl})\text{CH}_2\text{CONHC}_6\text{H}_4\text{SC}_6\text{H}_4\text{NHCOCH}_3(\text{CH}_3)_2$ .  
Also bactericide. 519P.

180-691-696-852-953-1015-1021-1291.

Ammonium chloride, benzyl- $\{3,3'\text{-dichloro-4,4'-(}\alpha\text{-diethylaminoacetamido})\text{-4-biphenylcarbamylmethyl}\}$ -diethyl-,  $(\text{C}_6\text{H}_5)_2\text{NCH}_2\text{CONHC}_6\text{H}_4(\text{Cl})\text{C}_6\text{H}_4(\text{Cl})\text{NHCOCH}_2\text{N}(\text{C}_2\text{H}_5)_2(\text{Cl})\text{CH}_2\text{C}_6\text{H}_5$ . 519P.

180-691-696-953-1012-1025-1291.

Ammonium chloride, benzyl- $\{4\text{-(}\alpha\text{-dimethylaminoacetamido})\text{-4-biphenylcarbamylmethyl}\}$ -dimethyl-,  $\text{C}_6\text{H}_5\text{CH}_2\text{N}(\text{CH}_3)_2(\text{Cl})\text{CH}_2\text{CONHC}_6\text{H}_4\text{C}_6\text{H}_4\text{NHCOCH}_2\text{N}(\text{CH}_3)_2$ . 519P.

180-691-953-1011-1022.

Stearamide, *N*-(2-dimethylaminoethyl)-, plus dyestuffs;  $\text{C}_{17}\text{H}_{35}\text{CONHC}_2\text{H}_4\text{N}(\text{CH}_3)_2$ . 1178, 1414P.

180-691-953-1011-1022-1030.

Oleamide, *N*-(2-dimethylaminoethyl)-, plus dyestuffs;  $\text{C}_{17}\text{H}_{33}\text{CONHC}_2\text{H}_4\text{N}(\text{CH}_3)_2$ . 1178, 1414P.

180-691-953-1013-1030.

Oleamide, *N*-(2-diethylaminoethyl)-, plus dyestuffs;  $\text{C}_{17}\text{H}_{33}\text{CONHC}_2\text{H}_4\text{N}(\text{C}_2\text{H}_5)_2$ . 1178, 1414P.

180-696-701-952-987-1024-1291.

Ammonium chloride, *p*-cyanobenzyl- $\{dodecyl\text{-}(p\text{-phenylcarbamylmethyl})\text{-dimethyl-}; \text{C}_6\text{H}_5\text{NHCOCH}_2(\text{C}_{12}\text{H}_{25})\text{-N}(\text{CH}_3)_2(\text{Cl})\text{CH}_2\text{C}_6\text{H}_4\text{CN}$ . 529P.

180-696-710-950-984-1011-1024-1291.

Ammonium methyl sulfate,  $\{2,3\text{-dihydro-2-hepta-decyl-1-indolyl}\}\text{-carbamylmethyl}\text{-trimethyl-}; \text{C}_{17}\text{H}_{35}(\text{C}_6\text{H}_4\text{N})\text{COCH}_2\text{N}(\text{CH}_3)_3\text{SO}_4$ . 521P.

180-696-781-851-953-1011-1023-1291.

Ammonium chloride, benzyl- $\{p\text{-}(2\text{-chlorobenzylthio})\text{-phenylcarbamylmethyl}\}$ -dimethyl-,  $\text{C}_6\text{H}_5\text{CH}_2\text{N}(\text{CH}_3)_2(\text{Cl})\text{CH}_2\text{CONHC}_6\text{H}_4\text{SC}_6\text{H}_4\text{Cl}$ .  
Also bactericide. 519P.

180-696-781-852-953-1011-1023-1291.

Ammonium chloride, benzyl- $\{p\text{-}(3,4\text{-dichlorophenylthio})\text{-phenylcarbamylmethyl}\}$ -dimethyl-,  $\text{C}_6\text{H}_5\text{CH}_2\text{N}(\text{CH}_3)_2(\text{Cl})\text{CH}_2\text{CONHC}_6\text{H}_3\text{Cl}_2$ .  
Also bactericide. 519P.

thio)-phenyl-carbamylmethyl}-dimethyl-,  $\text{C}_6\text{H}_5\text{CH}_2\text{N}(\text{CH}_3)_2(\text{Cl})\text{CH}_2\text{CONHC}_6\text{H}_3\text{Cl}_2\text{SC}_6\text{H}_3\text{Cl}_2$ .  
Also bactericide. 519P.

180-696-852-953-1011-1024-1291.

Ammonium chloride, benzyl- $\{5\text{-chloro-2-(}p\text{-chlorobenzyl})\text{-phenyl}\}\text{-carbamylmethyl}\}$ -dimethyl-,  $\text{ClC}_6\text{H}_4\text{CH}_2\text{C}_6\text{H}_3\text{Cl}(\text{Cl})\text{NHCOCH}_2\text{N}(\text{CH}_3)_2(\text{Cl})\text{CH}_2\text{-C}_6\text{H}_5$ .  
Also bactericide. 519P.

180-696-854-952-1012-1022-1291.

Ammonium chloride, bis-(3,4-dichlorophenylcarbamylmethyl)-dimethyl-,  $\text{Cl}_2\text{C}_6\text{H}_3\text{NHCOCH}_2\text{N}(\text{CH}_3)_2(\text{Cl})\text{CH}_2\text{CONHC}_6\text{H}_3\text{Cl}_2$ .  
Also bactericide. 1235P.

180-696-954-1012-1025-1291.

*m,m'*-Bitolyl, 4,4'-bis[ $\alpha\text{-(benzyl-dimethylammonium chloride)-acetamido-}$ ];  $[\text{C}_6\text{H}_4\text{CH}_2\text{N}(\text{CH}_3)_2(\text{Cl})\text{CH}_2\text{CONHC}_6\text{H}_4\text{CH}_2\text{CH}_3]_2$ .  
Also bactericide. 519P.

180-730-950-1011.

Quinoline, 5-acetamido-;  $\text{CH}_3\text{CONHC}_8\text{H}_6\text{N}$ . (5-Acetylaminquinoline).

ST mold fungi at 0.3%. 476.

180-730-950-1011.

Quinoline, 8-acetamido-;  $\text{CH}_3\text{CONHC}_8\text{H}_6\text{N}$ . (8-Acetylaminquinoline).

HT mold fungi at 0.3% and MT at 0.1%. 476.

180-730-1011.

Pyridine, 2-acetamido-;  $\text{CH}_3\text{CONHC}_5\text{H}_4\text{N}$ . (2-Acetylaminopyridine).

ST mold fungi at 0.1-0.3%. 476.

180-730-1021-1027.

Nicotinamide, *N*-alkyl-;  $\text{RNHCOC}_5\text{H}_4\text{N}$ . (Nicotinic acid amide). 771AP.

180-730-1021-1027.

Isonicotinamide, *N*-alkyl-;  $\text{RNHCOC}_5\text{H}_4\text{N}$ . (Isonicotinic acid amide). 771AP.

180-730-1021-1027.

Picolinamide, *N*-alkyl-;  $\text{RNCOC}_5\text{H}_4\text{N}$ . (Picolinic acid amide). 771AP.

180-841-951-1011.

Acetanilide, *p*-bromo-;  $\text{BrC}_6\text{H}_4\text{NHCOCH}_3$ .

ST *Sclerotinia sclerotiorum* at 1-1,000. 728.

180-851-951-1011.

Acetanilide, *p*-chloro-;  $\text{ClC}_6\text{H}_4\text{NHCOCH}_3$ .

MT mold fungi at 0.3%. 476.

180-851-959-1011.

Acetamide,  $\alpha$ -chloro-*N*-dodecyl-;  $\text{C}_{12}\text{H}_{25}\text{NHCOCH}_2\text{Cl}$ . (Chloroacetyldodecylamine).

Seed disinfectant. 822P.

180-921-1011.

Acetamide, *N*-1-naphthyl-;  $\text{C}_{10}\text{H}_7\text{NHCOCH}_3$ . (Acet- $\alpha$ -naphthylamide).

ST mold fungi at 0.3%. 476.

180-921-1011.

Acetamide, *N*-2-naphthyl-;  $\text{C}_{10}\text{H}_7\text{NHCOCH}_3$ . (Acet- $\beta$ -naphthylamide).

MT mold fungi at 0.05-0.2%. 476.

180-951-1011.

Acetanilide;  $\text{C}_6\text{H}_5\text{NHCOCH}_3$ .

T *Sclerotinia sclerotiorum* at 1-1,000. 728.

180-951-1011-1021.

Acetamide, *N*-benzyl-;  $\text{CH}_3\text{CONHC}_6\text{H}_5$ .

ST mold fungi at 0.1%. 476.

180-951-1011-1021.

*o*-Acetotoluide;  $\text{CH}_3\text{C}_6\text{H}_4\text{NHCOCH}_3$ . (Acetyl *o*-toluidine; *o*-methyl acetanilide).

MT mold fungi at 0.3%; T *Sclerotinia sclerotiorum* at 1-1,000. 476, 728.

180-951-1011-1021.

*p*-Acetotoluide;  $\text{CH}_3\text{CONHC}_6\text{H}_4\text{CH}_3$ . (*p*-Methyl acetanilide; acetyl *p*-toluidide).

HT mold fungi at 0.3%; T *Sclerotinia sclerotiorum* at 1-1,000; ST mildew fungi on cotton goods. 476, 728.

180-951-1011-1111-1218.

Phenylstibinic acid, *p*-acetamido-, sodium salt;  $\text{CH}_3\text{CONHC}_6\text{H}_4\text{Sb}(\text{H})(\text{O})\text{ONa}$ . (*p*-Acetylaminophenylstibinic acid, sodium salt).

ST mold fungi at 0.02%. 476.

- 186-951-1011-1113-1177.  
Phenylarsonic acids, 3-acetamido-, mercurized. 1346P.
- 186-951-1012.  
Acetamide, *N,N'*-*m*-phenylenebis-;  $C_6H_4(NHCOCH_3)_2$ . (Disect-*m*-phenylenediamide).  
ST mold fungi at 0.3%. 476.
- 186-952-1003-1030.  
Cinnamanilide;  $C_6H_5NHCOCH:CHC_6H_5$ .  
ST mold fungi at 0.3%. 476.
- 186-952-1003.  
Hydrocinnamanilide;  $C_6H_5CH_2CH_2CONHC_6H_5$ .  
ST mold fungi at 0.3%. 476.
- 186-952-1021.  
Benzanilide;  $C_6H_5NHCOCH_3$ .  
ST mildew fungi in cotton goods. 476.
- 187-258-996-1001-1022-1218.  
Sulfosuccinamide, *N,N'*-dimethyl-*N,N'*-diheptyl-, sodium salt;  $CH_3(C_2H_5)_2NCOCH_2CH(SO_3Na)CON(C_2H_5)_2$ . (Sodium bis(*N*-methyl-*N*-heptyl)sulfosuccinamide). 624P.
- 187-551-696-740-950-990-1013-1022-1291.  
Ammonium chloride, (Carbethoxymethyl)dimethyl-[1-(2,3-dihydro-2-benzecylindolyl)carbonylmethyl]-;  $C_{11}H_{21}N(C_2H_5)_2COCH_2(C_6H_5)_2(Cl)CH_2COOC_2H_5$ . 520P.
- 187-551-861-1001-1011-1022.  
Sarcosine, *N*-fluorobutyl-, methyl ester;  $FC_3H_7CON(CH_3)CH_2COOCH_3$ ? (Monofluorobutyric acid methyl sarcoside). 345P.
- 187-551-952-1022.  
Salicylanilide, *N*-methyl-;  $HOC_6H_4CON(CH_3)C_6H_5$ .  
Salicyl-*N*-methylanilide).  
ST mold fungi at 0.1%. 476.
- 187-552-952-1011-1021.  
Salicylanilide, *N*-(2-hydroxyethyl)-;  $HOC_6H_4CON(CH_2CH_2OH)C_6H_5$ . (*N*-Salicyl- $\beta$ -hydroxyethylanilide).  
ST mold fungi at 0.1%. 476.
- 187-551-951-1003-1021.  
Propionanilide, chloro-, *N*-methyl-;  $ClC_2H_4CON(CH_3)C_6H_5$ . (*N*-Methylchloropropionanilide). 892P.
- 187-551-951-1011-1021.  
Acetanilide,  $\alpha$ -chloro-*N*-methyl-;  $C_6H_5N(CH_3)OCC-Cl$ . (*N*-Methylchloroacetylanilide). 892P.
- 187-951-1011-1021.  
Acetanilide, *N*-methyl-;  $C_6H_5N(CH_3)COCH_3$ .  
ST mold fungi at 0.3%. 476.
- 188-1389.  
Hydroxylamine hydrogen sulfate;  $NH_2OH.H_2SO_4$ . (Hydroxylamine acid sulfate).  
T *Macrosporium sarcinaeforme*. 717.
- 188-1389.  
Hydroxylamine sulfate;  $2(NH_2OH).H_2SO_4$ .  
T *Macrosporium sarcinaeforme*. 717.
- 189-1011-1021.  
Carbamate acid, ethyl ester;  $H_2NCOOC_2H_5$ . (Urethane; ethyl carbamate).  
T *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 189-588-951-1021-1142.  
Salicylaldehyde oxime, copper derivative;  $[HON:CHC_6H_4O]_2Cu$ ? (Copper salt of salicylaldoxime).  
NT *Macrosporium sarcinaeforme*. 717, 905.
- 190-951.  
Quinone dioxime;  $C_6H_4(:NOH)_2$ . (Quinone dioximino compound). 721AP.
- 196-581-975.  
Amine oxides, phenolic;  $HO-aryl-N:O$ . 152P.
- 199-989-1022.  
Amine oxide, dodecylmethyl-;  $C_{12}H_{25}N(O)(CH_3)_2$ . (Lauryl dimethylamine oxide). 1332P.
- 200-959.  
Cyanic acid, dodecyl ester;  $C_{12}H_{25}OCN$ . (Lauryl cyanate). 593P.
- 206-258-581-951.  
1-Phenol-2-sulfonic acid, 4-nitro-;  $O_2NC_6H_4(SO_3H)-OH$ . (*p*-Nitrophenol-2-sulphonic acid).  
MT mold fungi at 0.03%. 476.
- 206-541-581-951-1021.  
Salicylic acid, 5-nitro-;  $O_2NC_6H_4(OH)COOH$ .  
MT mold fungi at 0.1%. 476.
- 206-541-581-951-1021.  
Benzoic acid, 4-hydroxy-3-nitro-;  $O_2NC_6H_4(OH)-COOH$ . (3-Nitro-*p*-hydroxybenzoic acid).  
HT mold fungi at 0.05-0.1%. 476.
- 206-541-588-951-1011-1142.  
Phenol, *p*-nitro-, copper acetate compound;  $O_2NC_6H_4.OH.Cu(CH_3COO)_2$ . (Cu acetate of 4-nitrophenol). 362P.
- 206-541-588-951-1011-1244.  
Phenol, *p*-nitro-, zinc acetate compound;  $O_2NC_6H_4.OH.(Zn(CH_3COO)_2)_2$ . (Zn acetate of 4-nitrophenol). 362P.
- 206-542-581-951-1012-1021-1177.  
*o*-Cresol, 3,5-bis(acetoxymethyl)-4-nitro-;  $CH_3(OH)(NO_2)C_6H_3(H_2OOCCH_3)_2$ . (4-Nitro-3,5-bisacetoxymethyl-2-cresol).  
T wood-destroying fungi at 1-500. 655.
- 206-551-951-1021.  
Phenol, *p*-nitro-, formate-;  $HCOOC_6H_4NO_2$ . (Formate of 4-nitrophenol). 362P.
- 206-561-951.  
Benzaldehyde, *p*-nitro-;  $O_2NC_6H_4CHO$ .  
T wood-destroying fungi but too volatile as wood preservative. 60.
- 206-581-965-924-951.  
2-Naphthol, 1-(*p*-nitrophenylazo)-;  $O_2NC_6H_4N:N-C_{10}H_7OH$ . (*p*-Nitraniline red).  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 206-581-852-951.  
Phenol, 2,6-dichloro-4-nitro-;  $Cl_2C_6H_3(NO_2)OH$ . (2,6-Dichloro-4-nitrophenol).  
T several species wood-destroying fungi. 60.
- 206-581-924.  
2-Naphthol, nitro-;  $O_2NC_{10}H_7OH$ . (Nitro- $\beta$ -naphthol).  
T several species wood-destroying fungi. 60.
- 206-581-951.  
Phenol, *o*-nitro-;  $O_2NC_6H_4OH$ . (Ortho nitro phenol).  
Injected into chestnut trees for blight control;  
T wood-destroying fungi but too volatile as wood preservative. 60, 175, 1213B.
- 206-581-951.  
Phenol, *p*-nitro-;  $O_2NC_6H_4OH$ . (Para nitrophenol).  
T *Macrosporium sarcinaeforme*, *Sclerotinia fructicola*, and wood-destroying fungi but too volatile as wood preservative. 60, 175, 289, 1081, 1213B.
- 206-581-951-1113-1177.  
Benzenearsonic acid, 4-hydroxy-3-nitro-, mercurized;  $H_2O_3AsC_6H_3(OH)(NO_2)+Hg$ . (3-Nitro-4-hydroxyphenylarsonic acids). 1346P.
- 206-581-951-1113-1177.  
Arsine oxide, 4-hydroxy-3-nitrophenyl-, mercurized;  $HO(NO_2)C_6H_3As(O)H_2+Hg$ . 1345P.
- 206-581-951-1177.  
Phenols, nitro-, mercurized, CU. 786P.
- 206-581-951-1177-1201.  
Phenol, 2-chloromercuri-4-nitro-;  $HOC_6H_3(NO_2)-HgCl$ . (2-Chloromercuri-*p*-nitrophenol).  
ST mold fungi at 0.01%. 476.
- 206-581-1001.  
1-Propanol, 2-methyl-2-nitro-;  $CH_3C(NO_2)(CH_3)-CH_2OH$ . (2-Nitro-2-methyl-1-propanol).  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 717.
- 206-581-1001.  
1-Butanol, 2-nitro-;  $CH_3CH_2CH(NO_2)CH_2OH$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 717.
- 206-582-591-951-1003.  
1,2-Propanediol, 3-(nitrophenoxy)-;  $O_2NC_6H_4OCH_2-CH_2(OH)CH_2OH$ . ( $\alpha$ -Glyceryl ether of nitrophenol).  
ST mold fungi at 0.1%; NT mildew fungi in cotton goods. 476.
- 206-582-999.  
1,3-Propanediol, 2-ethyl-2-nitro-;  $HIOClC(NO_2)-(C_2H_5)CH_2OH$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289, 717.
- 206-582-1001.  
1,3-Propanediol, 2-methyl-2-nitro-;  $HOC(CH_3)C(NO_2)-(CH_3)CH_2OH$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 717.
- 206-583-1001.  
1,3-Propanediol, 2-hydroxymethyl-2-nitro-;  $O_2NC-(CH_2OH)_2$ . (Tris(hydroxymethyl)-nitro methane).

- NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 717.  
206-588-851-951-1218.  
Phenol, chloronitro-, sodium derivative;  $\text{NaOC}_6\text{H}_3(\text{NO}_2)\text{Cl}$ . (Sodium nitro-chlorophenol). 175, 614AP.  
206-588-951-1177-1218-1325  
Phenol, 4-hydroxymercuri-2-nitro-, sodium derivative;  $\text{NaOC}_6\text{H}_3(\text{NO}_2)\text{HgOH}$ . (Sodium oxymercuri-orthonitrophenolate; mercurphen).  
T several species wood-destroying fungi. 655.  
206-588-951-1142-1389.  
Phenol, *p*-nitro-, copper sulfate compound;  $\text{O}_2\text{NC}_6\text{H}_4\text{H}_2\text{O}_4\text{CuSO}_4$ . (Copper sulfate of 4-nitrophenol). 362P.  
206-588-951-1177-1246.  
Phenol, nitro-, mercurized, alkali derivatives; 786P.  
206-588-951-1244-1291.  
Phenol, *p*-nitro-, zinc chloride compound;  $\text{O}_2\text{NC}_6\text{H}_4\text{OH}\cdot\text{ZnCl}_2$ . (Zinc chloride of 4-nitrophenol). 362P.  
206-591-951-1021.  
Anisole, *o*-nitro-;  $\text{O}_2\text{NC}_6\text{H}_4\text{OCH}_3$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.  
206-671-851-951.  
Aniline, 2-chloro-4-nitro-;  $\text{O}_2\text{N}(\text{Cl})\text{C}_6\text{H}_3\text{NH}_2$ . (*o*-Chloro-*p*-nitraniline).  
T *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.  
206-671-951.  
Aniline, *p*-nitro-;  $\text{O}_2\text{NC}_6\text{H}_4\text{NH}_2$ . (1-Amino-4-nitrobenzene).  
T *Fusicladium*, *Peronospora*, *Sclerotinia sclerotiorum* at 1-10,000, and wood-destroying fungi but too volatile as wood preservative. 60, 89P, 728.  
206-671-951-1177.  
Anilines, nitro-, mercurized. 780P.  
206-681-952.  
Diphenylamine, 2-nitro-;  $\text{O}_2\text{NC}_6\text{H}_4\text{NHC}_6\text{H}_5$ .  
NT *Sclerotinia fructicola* and *Glomerella cingulata*. 578, 831.  
206-681-952.  
Diphenylamine, 4-nitro-;  $\text{O}_2\text{NC}_6\text{H}_4\text{NHC}_6\text{H}_5$ .  
T *Sclerotinia fructicola* and *Glomerella cingulata*. 578, 831.  
206-681-952-1021.  
*p*-Toluidine, *N*-(*p*-nitrophenyl)-;  $\text{O}_2\text{NC}_6\text{H}_4\text{NHC}_6\text{H}_4\text{CH}_3$ . (4'-Nitro-4-methyldiphenylamine).  
NT *Sclerotinia fructicola* and *Glomerella cingulata*. 578, 831.  
208-851-951.  
Benzene, 1-chloro-2-nitro-;  $\text{ClC}_6\text{H}_4\text{NO}_2$ . (*o*-Nitrochlorobenzene).  
T wood-destroying fungi but too volatile as wood preservative. 60.  
206-851-951.  
Benzene, 1-chloro-3-nitro-;  $\text{ClC}_6\text{H}_4\text{NO}_2$ . (*m*-Nitrochlorobenzene).  
NT *Macrosporium sarcinaeforme*. 289.  
206-851-951.  
Benzene, 1-chloro-4-nitro-;  $\text{ClC}_6\text{H}_4\text{NO}_2$ . (*p*-Nitrochlorobenzene).  
T *Sclerotinia fructicola* and wood-destroying fungi but too volatile as wood preservative; NT *Macrosporium sarcinaeforme*. 60, 289.  
206-851-951.  
Benzene, chloronitro-, CU;  $\text{ClC}_6\text{H}_4\text{NO}_2$ .  
Seed disinfectant. 183P.  
206-855-951.  
Benzene, nitro-pentachloro-;  $\text{O}_2\text{NC}_6\text{Cl}_5$ . (Pentachloronitrobenzene).  
T *Botrytis*, damping-off, and mildew of lettuce. 287.  
206-924.  
Naphthalene, 1-nitro-;  $\text{C}_{10}\text{H}_7\text{NO}_2$ . (*o*-Nitronaphthalene).  
T *Sclerotinia fructicola*; NT *Macrosporium sarcinaeforme*. 289.  
206-951.  
Benzene, nitro-;  $\text{C}_6\text{H}_5\text{NO}_2$ .  
T *Sclerotium rolfsii* at 1.5%; T wood-destroying fungi but too volatile as wood preservative; NT *Fusarium cubense*. 60, 804, 1420A.  
206-951-1021.  
Toluene, *p*-nitro-;  $\text{O}_2\text{NC}_6\text{H}_4\text{CH}_3$ .  
Seed disinfectant. 183P.  
208-951-1021.  
Toluene, nitro-, (mixed);  $\text{O}_2\text{NC}_6\text{H}_4\text{CH}_3$ .  
T several species wood-destroying fungi. 60.  
206-952-1021-1113.  
Arsinic acid, benzylnitrophenyl-;  $\text{C}_6\text{H}_4\text{CH}_2\text{AsO}(\text{OH})-\text{C}_6\text{H}_4\text{NO}_2$ . 1099F.  
206-1303.  
Propane, 1-nitro-;  $\text{CH}_3\text{CH}_2\text{CH}_2\text{NO}_2$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 717.  
206-1003.  
Propane, 2-nitro-;  $\text{CH}_3\text{CH}(\text{NO}_2)\text{CH}_3$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 717.  
207-541-581-951-1021.  
Salicylic acid, dinitro-;  $(\text{O}_2\text{N})_2\text{C}_6\text{H}_3(\text{OH})\text{COOH}$ .  
MT downy mildew of tobacco. 287.  
207-541-588-951-1011-1142.  
Phenol, 2,4-dinitro-, copper acetate compound;  $(\text{O}_2\text{N})_2\text{C}_6\text{H}_3\text{OH}\cdot\text{Cu}(\text{OOCCH}_3)_2$ . 362P.  
207-541-588-951-1011-1244.  
Phenol, 2,4-dinitro-, zinc acetate compound;  $(\text{O}_2\text{N})_2\text{C}_6\text{H}_3\text{OH}\cdot\text{Zn}(\text{OOCCH}_3)_2$ . 362P.  
207-551-951-1021.  
Phenol, 2,4-dinitro-, formate;  $\text{HCOOC}_6\text{H}_3(\text{NO}_2)_2$ . 362P.  
207-581-867-951-975-1022.  
Phenol, dinitro-, compound with arylbiguanide;  $\text{HOC}_6\text{H}_3(\text{NO}_2)_2\cdot\text{H}_2\text{N}(\text{NH})\text{NHC}(\text{NH})\text{NHR}$ . 630P.  
207-581-967-952-901-1022.  
Phenol, 2-cyclohexyl-4,6-dinitro-, compound with phenylbiguanide;  $\text{C}_6\text{H}_5\text{NHC}(\text{NH})\text{NHC}(\text{NH})\text{NH}\cdot\text{C}_6\text{H}_3(\text{NO}_2)_2(\text{OH})\cdot\text{C}_6\text{H}_5$ . (Phenylbiguanide salt of 2,4-dinitro-6-cyclohexylphenol). 630P.  
207-581-668-951-975-1021.  
Phenol, dinitro-, compound with diarylbiguanide;  $\text{HOC}_6\text{H}_3(\text{NO}_2)_2\cdot\text{RNHC}(\text{NH})\text{NHR}'$ . 630P.  
207-581-924.  
1-Naphthol, 2,4-dinitro-;  $\text{HOC}_6\text{H}_3(\text{NO}_2)_2$ . (Dinitro-naphthol; Martius yellow).  
Fungicide at 1-60,000. 1081.  
207-581-951.  
Phenol, 2,4-dinitro-;  $\text{HOC}_6\text{H}_3(\text{NO}_2)_2$ .  
T *Cladosporium fulvum* and spores of apple scab. 1273, 1476.  
207-581-951.  
Phenol, 2,6-dinitro-;  $\text{HOC}_6\text{H}_3(\text{NO}_2)_2$ .  
T several species wood-destroying fungi. 60.  
207-581-951.  
Phenol, dinitro-, CU.  
Used in winter treatments of fruit trees and grapevines to hinder development of *Penicillium glaucum* and *Aspergillus niger*. 1081.  
207-581-951-961.  
Phenol, 2-cyclohexyl-4,6-dinitro-;  $\text{HO}(\text{O}_2\text{N})_2\text{C}_6\text{H}_2\text{C}_6\text{H}_{11}$ .  
T *Rhizoctonia* sp. and *Fusarium* sp. 13.  
207-581-951-961.  
Phenol, *o*-cyclohexyldinitro-, CU;  $\text{HO}(\text{O}_2\text{N})_2\text{C}_6\text{H}_2\text{C}_6\text{H}_{11}$ .  
NT wood fungi. 655.  
207-581-951-1021.  
Cresol, dinitro-;  $(\text{O}_2\text{N})_2\text{C}_6\text{H}_3(\text{CH}_3)\text{OH}$ . (Victoria yellow).  
Fungicide at 1-60,000; used to check *Merulius lacrymans*. 1081.  
207-581-951-1021.  
*o*-Cresol, 4,6-dinitro-;  $(\text{O}_2\text{N})_2\text{C}_6\text{H}_3(\text{CH}_3)\text{OH}$ . (Incorrectly named 3,5-dinitro*ortho*cresol).  
T bean mildew (*Erysiphe polygoni*), *Cladosporium fulvum*, apple scab, and several fungi; NT corn rot (*Fusarium* sp.). 13, 728, 1273, 1476.  
207-581-952.  
Phenol, dinitro-*o*-phenyl-, compounds with organic nitrogen bases.  
T molds and other fungi. 121P.  
207-581-952-1045.  
Phenol, dinitro-*o*-phenyl-;  $\text{C}_6\text{H}_3\text{C}_6\text{H}_4\text{OH}(\text{NO}_2)_2$ .  
T molds and other fungi; NT wood-destroying fungi. 121P, 655.  
207-581-952-1450.  
Phenol, dinitro-*o*-phenyl-, salts.  
T molds and other fungi. 121P.

- 207-588-671-951-962.  
Phenol, 2-cyclohexyl-4,6-dinitro-, condensation compound with cyclohexylamine;  $C_6H_{11}NH_2HOC_6H_4(NO_2)_2C_6H_{11}$ . (Monocyclohexyl-amine salt of 2,4-dinitro-6-cyclohexyl phenol). 128P.
- 207-588-672-951-1011-1021-1142.  
Creolol, dinitro-, ethylenediaminocupric derivative;  $[CH_3C_6H_4(NO_2)_2O]_2Cu(CH_2NH_2)_2$ . (Ethylenediaminocupric dinitrocreolates).  
NT *Macrosporium sarcinaeforme*, *Venturia inaequalis*, and *Pirula*. 905.
- 207-588-681-951-963.  
Phenol, 2-cyclohexyl-4,6-dinitro-, condensation compound with dicyclohexylamine;  $(C_6H_{11})_2NH.HOC_6H_4(NO_2)_2C_6H_{11}$ . (Dicyclohexylamine salt of 2,4-dinitro-6-cyclohexyl phenol). 13, 128P, 129P.
- 207-588-681-951-963-1022.  
Phenol, 2-cyclohexyl-1,6-dinitro-, condensation compound with di-(2-methylcyclohexyl)-amine;  $(CH_3C_6H_{11})_2NH.HOC_6H_4(NO_2)_2C_6H_{11}$ . (Di-(2-methylcyclohexyl)-amine salt of 2,4-dinitro-6-cyclohexyl phenol). 128P.
- 207-588-951-1021-1108-1142.  
Creolol, dinitro-, aminocopper derivative;  $Cu(NH_2x-)[OC_6H_4(NO_2)_2CH_3]_2$ . Copper aminodinitrocreolates).  
T spores of *Venturia inaequalis*. 905.
- 207-588-951-1142-1389.  
Phenol, 2,4-dinitro-, copper sulfate compound;  $(O_2N)_2C_6H_3OH.CuSO_4$ . 362P.
- 207-588-951-1215.  
Phenol, dinitro-, sodium derivative;  $(O_2N)_2C_6H_3ONa$ . (Sodium dinitrophenolate).  
T several species wood-destroying fungi, 655, 657.
- 207-588-951-1211-1291.  
Phenol, 2,4-dinitro-, zinc chloride compound;  $(O_2N)_2C_6H_3OH.ZnCl_2$ . 362P.
- 207-681-952.  
Diphenylamine, 2,4-dinitro-;  $(O_2N)_2C_6H_3NHC_6H_5$ .  
NT comidia of *Sclerotinia fructicola* and *Glomerella cingulata*. 578, 831.
- 207-851-951.  
Benzene, 1-chloro-2,4-dinitro-;  $(O_2N)_2C_6H_3Cl$ .  
T several species wood-destroying fungi. 60.
- 207-851-951.  
Benzene, chlorodinitro-, Cu;  $(O_2N)_2C_6H_3Cl$ .  
T *Macrosporium sarcinaeforme*. 717.
- 207-853-951.  
Benzene, dinitrotrichloro-;  $C_6HCl_3(NO_2)_2$ . 365P.
- 207-854-951.  
Benzene, 1,3-dinitro-2,4,5,6-tetrachloro-;  $C_6Cl_4(NO_2)_2$  (1,2,4,6-Tetrachloro-3,5-dinitro-benzene). 345P.
- 207-924.  
Naphthalene, dinitro-;  $C_{10}H_6(NO_2)_2$ .  
T *Fusicladium* and *Peronospora*. 89P.
- 207-951.  
Benzene, m-dinitro-;  $C_6H_4(NO_2)_2$ .  
T *Sclerotinia sclerotiorum* at 1-1,000. 728.
- 208-581-951.  
Picric acid;  $(O_2N)_3C_6H_2OH$ . (Picronitric acid; nitroanthanic acid; carbazotic acid; 2,4,6-trinitrophenol; trinitrophenol).  
T *Macrosporium sarcinaeforme*, *Sclerotinia fructicola*, and wood-destroying fungi; used occasionally as fungicide in dermatomycosis. 60, 175, 283, 289, 606, 717, 1213B.
- 208-582-951.  
Styphnic acid;  $(O_2N)_3C_6H(OH)_2$ . (Tri-nitro-r6-sorcinol).  
Fungicide at 1-1,000. 1081.
- 208-588-951-1216.  
Picric acid, silver derivative;  $(O_2N)_3C_6H_2OAg$ . (Silver picrate; picratol; silver trinitrophenoxide; silver trinitrophenolate).  
T vaginitis and urethritis caused by *Trichomonas vaginalis* or *Monilia albicans*. 283.
- 209-681-952.  
Dipicrylamine;  $[C_6H_5(NO_2)_2]_2NH$ .  
NT *Sclerotinia fructicola* and *Glomerella cingulata*. 578, 831.
- 230-380-1022.  
4-Morpholinethiocarbonyl disulfide;  $(C_4H_8NO)C(S)-SSC(S)(C_4H_8NO)$ . (Thiurem disulfide of morpholine).  
T *Macrosporium sarcinaeforme*. 717.
- 230-373-1021-1244.  
4-Morpholinethiocarbonyl disulfide, zinc salt;  $[(C_4H_8NO)C(S)(S)]_2Zn$ . (Zinc salt of dithiocarbamic acid of morpholine).  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 717.
- 230-571-951-1065.  
Propiophenone, 8-4-morpholinyl-;  $C_6H_5COCH_2CH_2(C_4H_8NO)$ . ( $\alpha$ -Benzoyl- $\beta$ -morpholino ethane). 719P.
- 230-581-951-1023.  
Phenol, 2,4,6-tri-(4-morpholinylmethyl)-;  $[(C_4H_8NO)CH_2]_3C_6H_2OH$ . 151P.
- 230-1333.  
Morpholine, 4,4-diiodo-;  $(C_4H_8NO)HI_2$ . (Morpholine periodide).  
Used for dermal treatments. 110, 283, 1141P.
- 248-571-871-1023.  
Betaine iodide. (Trimethyl glycocoll iodide).  
Used for impregnating paper wraps, etc., to protect fruits for extended periods against attack by molds. 110, 898P.
- 250-989-1011-1021.  
Xanthic acid, dodecyl ester;  $C_{12}H_{25}OCSSC_2H_5$ . (Lauryl xanthate). 593P.
- 250-1011-1021-1124.  
Xanthic acid, cadmium salt;  $(C_2H_5OCSS)_2Cd$ .  
Seed disinfectant. 959P, 1432.
- 250-1012-1021.  
Xanthic acid, ethyl ester;  $C_2H_5OCSSC_2H_5$ . (Ethyl ethoxymethane thionothiolate; ethyl xanthogenate).  
T spores of *Tilletia tritici*. 1178, 1212P.
- 250-1021-1142.  
Xanthic acid, substituted, copper salt;  $(R-O-CSS)_2Cu$ . (Copper xanthates).  
Unsatisfactory control of disease under field conditions. 287.
- 258-541-581-951-1021.  
Sulhydic acid, sulfo-;  $HO(HO_2S)C_6H_4COOH$ .  
ST mold fungi at 0.1%. 476.
- 258-541-581-952-1027.  
Sulfonic acids, alkyl hydroxydiphenyl-. 499P.
- 258-541-581-952-1027-1109.  
Sulfonic acids, alkyl hydroxydiphenyl-, ammonium salts. 499P.
- 258-541-581-952-1027-1246.  
Sulfonic acids, alkylhydroxydiphenyl-, metal salts. 499P.
- 258-512-1045.  
Dicarboxylic acid, sulfonated.  
NT onion downy mildew. 1506.
- 258-551-561-983-1011-1246.  
Stearic acid, fluoro-, 2-sulfoethyl ester, salt;  $FCH_2(CH_2)_{16}COOCH_2CH_2SO_3M$ . (Salts of monofluorostearic acid esters of hydroxyethanesulfonic acid). 345P.
- 258-551-980-1003.  
1-Propanesulphonic acid, 3-hydroxy-, montanic acid ester;  $C_{29}H_{57}COOCH_2CH_2SO_3H$ .  
Used in control of *Peronospora* and *Fusicladium*. 358P, 1178.
- 258-551-980-1003-1218.  
Montanic acid, 3-sulfoethyl ester, sodium salt;  $C_{29}H_{57}COOCH_2CH_2SO_3Na$ . (Montanic acid ester of Na 1-hydroxy propane-3-sulfonate). 358P.
- 258-551-980-1011.  
Isethionic acid, montanic acid ester;  $C_{29}H_{57}COOC_2H_4SO_3H$ .  
Used in control of *Peronospora* and *Fusicladium*. 358P, 1178.
- 258-581-871-924.  
2-Naphthol-4-sulfonic acid, 1-amino-;  $H_2NC_{10}H_6(OH)SO_3H$ .  
T *Macrosporium sarcinaeforme*. 717.
- 258-581-871-924.  
1-Naphthol-5-sulfonic acid, 8-amino-;  $H_2NC_{10}H_6(OH)SO_3H$ . (1-Amino-8-naphthol-4-sulfonic acid; acid 8).  
T *Macrosporium sarcinaeforme*; NT *Sclerotinia fructicola*. 289.
- 258-581-871-924.  
1-Naphthol-3-sulfonic acid, 6-amino-;  $H_2NC_{10}H_6-$

- (OH)SO<sub>3</sub>H. (2-Amino-5-naphthol-7-sulfonic acid; acid J).  
*T. Macrosporium sarcinaeforme*; NT *Sclerotinia fructicola*. 289.
- 258-581-671-924.  
 1-Naphthol-3, 6-disulfonic acid, 8-amino-; H<sub>2</sub>NC<sub>10</sub>-H<sub>1</sub>(OH)(SO<sub>3</sub>H)<sub>2</sub>. (1-Amino-8-naphthol-3,6-disulfonic acid; acid H).  
*T. Macrosporium sarcinaeforme*; NT *Sclerotinia fructicola*. 289, 717.
- 258-581-730-871-950-1110.  
 5-Quinolinesulfonic acid, 8-hydroxy-7-iodo-, antimony salt; [IC<sub>8</sub>H<sub>6</sub>N(OH)(SO<sub>3</sub>)<sub>2</sub>]Sb.  
 Plant protecting composition when mixed with a metal phosphate or arsenate. 110, 1348P.
- 258-581-730-871-950-1142.  
 5-Quinolinesulfonic acid, 8-hydroxy-7-iodo-, copper salt; [C<sub>8</sub>H<sub>6</sub>N(OH)(SO<sub>3</sub>)<sub>2</sub>]Cu.  
 Plant protecting composition when mixed with a metal phosphate or arsenate. 110, 1348P.
- 258-581-730-871-950-1162.  
 5-Quinolinesulfonic acid, 8-hydroxy-7-iodo-, iron salt; [IC<sub>8</sub>H<sub>6</sub>N(OH)(SO<sub>3</sub>)<sub>2</sub>]Fe.  
 Plant protecting composition when mixed with a metal phosphate or arsenate. 110, 1348P.
- 258-581-730-871-950-1166.  
 5-Quinolinesulfonic acid, 8-hydroxy-7-iodo-, lead salt; [IC<sub>8</sub>H<sub>6</sub>N(OH)(SO<sub>3</sub>)<sub>2</sub>]Pb.  
 Plant protecting composition when mixed with a metal phosphate or arsenate. 110, 1348P.
- 258-581-730-871-950-1176.  
 5-Quinolinesulfonic acid, 8-hydroxy-7-iodo-, mercury salt; [IC<sub>8</sub>H<sub>6</sub>N(OH)(SO<sub>3</sub>)<sub>2</sub>]Hg.  
 Plant protecting composition when mixed with a metal phosphate or arsenate. 110, 1348P.
- 258-581-730-871-950-1182.  
 5-Quinolinesulfonic acid, 8-hydroxy-7-iodo-, nickel salt; [IC<sub>8</sub>H<sub>6</sub>N(OH)(SO<sub>3</sub>)<sub>2</sub>]Ni.  
 Plant protecting composition when mixed with a metal phosphate or arsenate. 110, 1348P.
- 258-581-730-871-950-1216.  
 5-Quinolinesulfonic acid, 8-hydroxy-7-iodo-, silver salt; [IC<sub>8</sub>H<sub>6</sub>N(OH)(SO<sub>3</sub>)<sub>2</sub>]Ag.  
 Plant protecting composition when mixed with a metal phosphate or arsenate. 110, 1348P.
- 258-581-730-871-950-1234.  
 5-Quinolinesulfonic acid, 8-hydroxy-7-iodo-, tin salt; [IC<sub>8</sub>H<sub>6</sub>N(OH)(SO<sub>3</sub>)<sub>2</sub>]Sn.  
 Plant protecting composition when mixed with a metal phosphate or arsenate. 110, 1348P.
- 258-581-730-871-950-1244.  
 5-Quinolinesulfonic acid, 8-hydroxy-7-iodo-, zinc salt; [IC<sub>8</sub>H<sub>6</sub>N(OH)(SO<sub>3</sub>)<sub>2</sub>]Zn.  
 Plant protecting composition when mixed with a metal phosphate or arsenate. 110, 1348P.
- 258-581-730-930.  
 5-Quinolinesulfonic acid, 8-hydroxy-; HOC<sub>8</sub>H<sub>6</sub>N(SO<sub>3</sub>H).  
*T. Macrosporium sarcinaeforme*; NT *Sclerotinia fructicola*. 289, 717.
- 258-581-730-950-1244.  
 5-Quinolinesulfonic acid, 8-hydroxy-, zinc salt; [HOC<sub>8</sub>H<sub>6</sub>N(SO<sub>3</sub>)<sub>2</sub>]Zn.  
*T. Macrosporium sarcinaeforme*. 289, 717.
- 258-581-951-1142.  
 Phenolsulphonic acid, mixed, copper salt; (HOC<sub>6</sub>H<sub>4</sub>-SO<sub>3</sub>)<sub>2</sub>Cu.  
 IT mold fungi at 0.1% and MT at 0.05%. 476.
- 258-581-951-1172.  
 1-Phenol-4-sulfonic acid, magnesium salt; (HOC<sub>6</sub>H<sub>4</sub>-SO<sub>3</sub>)<sub>2</sub>Mg. (Phenol-*p*-sulphonic acid, magnesium salt).  
 MT mold fungi at 0.3%. 476.
- 258-581-951-1177-1291.  
 1-Phenol-4-sulfonic acid, bis(chloromercuri)-; HOC<sub>6</sub>H<sub>4</sub>(SO<sub>3</sub>H)(HgCl)<sub>2</sub>. (Dichloromercuriphenol-*p*-sulphonic acid).  
 ST mold fungi at 0.01%. 476.
- 258-581-951-1244.  
 Phenolsulphonic acid, mixed, zinc salt; (HOC<sub>6</sub>H<sub>4</sub>-SO<sub>3</sub>)<sub>2</sub>Zn.  
 HT mold fungi at 3.0%. 476.
- 258-581-952-1001-1218.  
 Phenolsulfonic acid, butylphenyl-, sodium salt, Cu;  
 C<sub>8</sub>H<sub>7</sub>C<sub>6</sub>H<sub>4</sub>(OH)(C<sub>4</sub>H<sub>9</sub>)SO<sub>3</sub>Na. (Sodium monosulfonate of butylphenylphenol).  
 NT onion downy mildew. 1506.
- 258-582-065-072-024-952-1021-1218.  
 Trypan blue; [HOC<sub>10</sub>H<sub>6</sub>(NH<sub>2</sub>)(SO<sub>3</sub>Na)<sub>2</sub>N:NC<sub>6</sub>H<sub>4</sub>-(CH<sub>3</sub>)<sub>2</sub>] (Sodium bitolylidazo-bis-8-amino-1-naphthol-3,6-disulfonate).  
 Injected into chestnut trees for blight control. 175, 1213B.
- 258-582-856-953-1021.  
*p*-Toluenesulfonic acid, *α,α*-bis(3-hydroxy-2,4,6-trichlorophenyl)-; [C<sub>6</sub>(HO)C<sub>6</sub>H<sub>2</sub>Cl<sub>3</sub>SO<sub>3</sub>H] (3,3'-Dihydroxy-2,2',4,4',6,6'-hexachlorotriphenylmethane-4''-sulfonic acid). 1453P.
- 258-582-924-1021-1176.  
 Naphthalenesulfonic acid, methylene bis-, mercury salt, Cu; CH<sub>2</sub>[C<sub>10</sub>H<sub>7</sub>(OH)SO<sub>3</sub>]<sub>2</sub>Hg. 177.
- 258-592-701-1021-1176-1196.  
 Lignomethylenedisulfonic acid, and K<sub>2</sub>Hg(CN)<sub>4</sub>. 177.
- 258-592-1021-1176.  
 Lignomethylenedisulfonic acid, mercury salt. 177.
- 258-665-672-924-952-1218.  
 Congo red; [H<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>(SO<sub>3</sub>Na)N:NC<sub>6</sub>H<sub>4</sub>]<sub>2</sub>.  
 Injected into chestnut trees for blight control. 175, 1213B.
- 258-671-924.  
 1-Naphthalenesulfonic acid, 2-amino-; H<sub>2</sub>NC<sub>10</sub>H<sub>6</sub>-SO<sub>3</sub>H. (2 Naphthyl amine 1 sulfonic acid; Tobias acid).  
*T. Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 258-671-924.  
 2-Naphthalenesulfonic acid, 5-amino-; H<sub>2</sub>NC<sub>10</sub>H<sub>6</sub>-SO<sub>3</sub>H. (1,6 Naphthyl amine sulfonic acid; 1-naphthylamine-6-sulfonic acid?).  
*T. Macrosporium sarcinaeforme*. 717.
- 258-671-924.  
 2-Naphthalenesulfonic acid, 5-(+8-)amino-; H<sub>2</sub>-NC<sub>10</sub>H<sub>6</sub>SO<sub>3</sub>H. (1,6+1,7 Naphthyl amine sulfonic acid; Cleve's acid).  
*T. Macrosporium sarcinaeforme*; NT *Sclerotinia fructicola*. 289.
- 258-671-924.  
 2-Naphthalenesulfonic acid, 8-amino-; H<sub>2</sub>NC<sub>10</sub>H<sub>6</sub>-SO<sub>3</sub>H. (1,7 Naphthyl amine sulfonic acid; 1-naphthylamine-7-sulfonic acid?).  
*T. Macrosporium sarcinaeforme*. 717.
- 258-671-951.  
 Sulfanilic acid; H<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>SO<sub>3</sub>H. (*p*-Aminobenzenesulfonic acid).  
*T. Macrosporium sarcinaeforme*; ST *Sclerotinia sclerotium* at 1-1,000. 289, 717, 728.
- 258-671-951-1142.  
 Sulfanilic acid, copper salt; (H<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>SO<sub>3</sub>)<sub>2</sub>Cu.  
 T spores of *Venturia inaequalis*. 905.
- 258-781-852-953-1023.  
*o*-Toluenesulfonic acid, *α,α*-bis(*p*-chlorobenzyl-thio-; HO<sub>2</sub>SC<sub>6</sub>H<sub>4</sub>CH(SClC<sub>6</sub>H<sub>4</sub>Cl)<sub>2</sub>. 523P.
- 258-781-852-953-1023.  
*m*-Toluenesulfonic acid, *α,α*-bis(*p*-chlorobenzyl-thio-; HO<sub>2</sub>SC<sub>6</sub>H<sub>4</sub>CH(SClC<sub>6</sub>H<sub>4</sub>Cl)<sub>2</sub>. 523P.
- 258-791-051-1011-1177-1218.  
 Benzenesulfonic acid, *p*-ethylmercurithio-, sodium salt; CH<sub>3</sub>CH<sub>2</sub>HgSC<sub>6</sub>H<sub>4</sub>SO<sub>3</sub>Na? (Sodium *p*-ethylmercuri thiophenyl-sulfonate).  
 T citrus stem-end rot. 566.
- 258-881-1021-1109-1177-1325.  
 Methanesulfonic acids, halo-, mercurized, ammonium salt. 75P.
- 258-881-1021-1177.  
 Methanesulfonic acids, halo-, mercurized. 75P.
- 258-881-1021-1177-1240.  
 Methanesulfonic acids, halo-, mercurized, alkaline earth salt. 75P.
- 258-881-1021-1177-1246.  
 Methanesulfonic acids, halo-, mercurized, alkali salt. 75P.
- 258-924.  
 Naphthalenesulfonic acid; C<sub>10</sub>H<sub>7</sub>SO<sub>3</sub>H. (Sulfonaphthalene). 476, 893P.
- 258-924-1027.  
 Naphthalenesulfonic acids, alkyl-.  
 NT onion downy mildew. 356P, 1506.

- 253-924-1218.  
Naphthalenesulphonic acids, sodium salt;  $C_{10}H_7SO_3Na$ .  
ST mold fungi at 0.25%. 476.
- 258-951-1021-1214.  
*p*-Toluenesulphonic acid, zinc salt;  $(CH_3C_6H_4SO_3)_2Zn$ .  
MT mold fungi at 0.5%. 476.
- 258-951-1027.  
Benzenesulfonic acid, alkyl-, esters or salts. (Alkyl substituted benzene sulfonates).  
Used for mildew-proofing. 817P.
- 258-951-1218.  
Benzenesulfonic acid, sodium salt;  $C_6H_5SO_3Na$ .  
NT *Macrosporium sarcinaeforme*. 289.
- 258-1027.  
Alkylsulfonic acids, oxygen containing. 746P.
- 258-1045-1177-1246.  
Sulfonic acids, mercurized, alkali salts. 786P.
- 261-581-1021-1218.  
Sodium formaldehydesulfoxylate;  $HOCH_2SO_2Na$ .  
Non-fungicidal and caused injury to leaf tissue. 903.
- 261-582-671-681-952-1021-1113-1218.  
Neosarsphenamine;  $HO(H_2N)C_6H_4As:AsC_6H_5(OH)-NHCH_3SO_2Na$ .  
Nearly as toxic to germinating grain as to fungus itself. 74.
- 264-893-975-1021.  
Sulfone, aryltrifluoromethyl-;  $RSO_2CF_3$ . 342P.
- 265-440-950.  
Phenothiazine, 5-oxide;  $O:(C_{12}H_9NS)$ . (Phenothiazine sulphoxide). 577.
- 301-950.  
Phenoxathin;  $(C_{12}H_9OS)$ . (Phenothioxin; phenox-thin).  
T bean mildew (*Erysiphe polygoni*). 13.
- 328-1021-1027.  
Formic acid, chloro-, alkyl esters;  $ClCOOR$ . (Alkyl esters of chlorocarbonic acids). 1181.
- 331-440-950-1021.  
Phenothiazine, *N*-chloroformyl-;  $(C_{12}H_9NS)COCl$ . (Phenothiazine-*N*-carboxylic acid chloride).  
NT *Sclerotinia fructicola* and *Glomerella cingulata*. 578, 831.
- 331-1021.  
Phosgene;  $COCl_2$ . (Carbonyl chloride; chloroformyl chloride).  
Injurious to plants. 1041.
- 360-1025.  
Formamide,  $\alpha,\alpha'$ -dithiois[*N,N*-dimethylthio-;  $(CH_3)_2NC(S)SSC(S)N(CH_3)_2$ . (Tetramethylthiuram disulfide; TMTD; TUADS; Thioan; Arasan; du-Bay 1205 FF, etc.).  
Inhibited growth of *Aspergillus niger* and *Fomes annosus*; T apple scab and cedar apple rust. 287, 288, 304P, 1178, 1273, 1405P, 1406P.
- 365-1014-1022.  
Carbamic acid, diethylidithio-, anhydride;  $(C_2H_5)_2NC(S)SC(S)N(C_2H_5)_2$ . (Thiuram sulphide, tetra-ethyl-).  
MT spores on barley. 1178, 1405P, 1406P.
- 365-1022-1045.  
Carbamic acid, dithio-, anhydride, substituted. (Thiuram sulfides).  
Effective on certain fungus and bacteria skin infections. 1403.
- 365-1025.  
Carbamic acid, dimethyldithio-, anhydride;  $(CH_3)_2C(S)SC(S)N(CH_3)_2$ . (Tetramethylthiuram sulfide).  
T spores of apple scab and smut on barley; protects treated cloth and pine wood against fungi. 304P, 1178, 1405P, 1406P.
- 370-668-698-953-1024.  
Carbamic acid, dimethyldithio-, triphenyl-guanidine salt;  $(CH_3)_2NC(S)SH.NH(C_6H_5)_3C:(NC_6H_5)_3-NHC_6H_5$ .  
Inhibits growth of *Aspergillus niger* and *Fomes annosus*. 1178, 1405P, 1406P.
- 370-989-1012-1021.  
Carbamic acid, diethylidithio-, lauryl ester;  $(C_2H_5)_2NC(S)SC_2H_4H_{11}$ . (Lauryl diethylidithiocarbamate). 593P.
- 370-989-1021.  
Carbamic acid, didodecyldithio-;  $(C_{12}H_{25})_2NC(S)SH$ . (Dilauryldithiocarbamates). 593P.
- 370-1011-1022-1124.  
Carbamic acid, ethylmethyldithio-, cadmium salt;  $[C_2H_5(CH_3)NC(S)S]_2Cd$ .  
Inhibited growth of *Aspergillus niger* and *Fomes annosus*. 1178, 1405P, 1406P.
- 370-1011-1023.  
Carbamic acid, dimethyldithio-, ethyl ester;  $(CH_3)_2NC(S)SC_2H_5$ .  
T spores on barley. 1178, 1405P, 1406P.
- 370-1021-1045.  
Carbamic acid, dithio-, substituted;  $RR'NC(S)SH$ . (Dithiocarbamates).  
Effective on certain fungus and skin infections of dogs; T *Ustilago hordei*, *Fomes annosus*, and *Aspergillus niger*. 387P, 1178, 1403.
- 370-1023-1162.  
Carbamic acid, dimethyldithio-, ferric salt;  $[(CH_3)_2NC(S)S]_2Fe$ . (Ferric dimethyldithio-carbamate; fer-mate; duBay 870, IN-870).  
T apple scab and rust, *Aspergillus niger*, and *Fomes annosus*. 287, 1178, 1405P, 1406P.
- 376-952-1021.  
Carbanilide, thio-;  $(C_6H_4NH)_2CS$ . (*N,N'*-Di-phenylthiourea).  
T *Sclerotinia fructicola*; NT *Macrosporium sarcinaeforme*. 289, 728.
- 376-1021.  
Urea, thio-;  $H_2NC(S)NH_2$ . (Thiocarbamide).  
HT mold fungi at 0.8%. 476, 717, 1471.
- 401-571-951-1011-1021.  
Thiocyanic acid, phenacyl ester;  $C_6H_5COCH_2SCN$ .  
HT *Pestalotia stellata*; NT *Sclerotinia fructicola* and *Botrytis paeoniae*. 1432, 1487.
- 401-581-851-952-1021.  
Benzohydrol, 4-chloro- $\alpha$ -thiocyano-;  $C_6H_5C(OH)(SCN)C_6H_4Cl$ . (Thiocyanic acid, *p*-chloro-benzophenone ester).  
ST *Sclerotinia fructicola* and *Botrytis paeoniae*. 1432, 1487.
- 401-671-951-1021.  
Aniline, thiocyan-;  $CU; H_2NC_6H_5SCN?$   
MT *Sclerotinia fructicola*. 1432, 1487.
- 401-696-989-1011-1023-1201.  
Ammonium chloride, dodecylidimethyl(2-thiocyano-ethyl)-;  $C_{12}H_{25}N(CH_2)_2(Cl)CH_2CH_2SCN$ . 529P.
- 401-989.  
Thiocyanic acid, *n*-dodecyl ester;  $C_{12}H_{25}SCN$ .  
T spores of apple scab. 1273, 1432.
- 401-989.  
Thiocyanic acid, *sec*-dodecyl ester;  $C_{12}H_{25}SCN$ . 1273, 1401-1045.
- Thiocyano compound. 1023P.
- 411-951-1011-1021.  
Isothiocyanic acid, phenethyl ester;  $C_6H_5C_2H_4NCS$ . (*S*-Phenethyl isothiocyanate). 716.
- 411-951-1021.  
Isothiocyanic acid, phenyl ester;  $C_6H_5NCS$ . (Phenyl mustard oil).  
T *Botrytis paeoniae* and *Pestalotia stellata*; MT *Sclerotinia fructicola*. 575P, 929, 930, 1432, 1487.
- 411-1003-1021-1030.  
Isothiocyanic acid, allyl ester;  $CH_2=CHCH_2NCS$ . (Allyl isothiocyanate; 2-propenyl isothiocyanate; allyl mustard oil).  
HT several facultative saprophytes; NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289, 716, 1448.
- 440-521-692-950-1024.  
Methylene blue;  $(CH_3)_2N(C_{12}H_9NS)(CH_3)_2Cl$ . (3,9-Bisdimethylaminophenazothionium chloride).  
Injected into chestnut trees for blight control; T *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 175, 289, 1213B.
- 440-571-581-950.  
3-Isophenothiazin-3-one, 7-hydroxy-;  $O:(C_{12}H_9NS)-OH$ . (Thionol).  
NT *Sclerotinia fructicola* and *Glomerella cingulata*. 577.
- 440-571-950.  
3-Isophenothiazin-3-one;  $O:(C_{12}H_9NS)$ . (Phenothiazone).

- T Sclerotinia fructicola* and *Glomerella cingulata*;  
NT *Macrosporium sarcinaeforme*. 287, 289, 577.
- 440-950.  
Phenothiazine;  $C_{12}H_8NS$ .  
*T Sclerotinia fructicola*, *Glomerella cingulata*,  
*Macrosporium sarcinaeforme*, and bean mildew. 13,  
289, 578.
- 460-571-700.  
Pseudothiohydantoin;  $O:(C_6H_5NS):NH$ . (2-Imino-  
4-keto-tetrahydro-thiazole). 18P, 85P, 594P, 595P,  
596P, 1178.
- 460-572.  
2,4-(3,5)-Thiazolodione;  $O:(C_6H_5NS):O$ . (2,4-Diketo-  
tetrahydrothiazole). 18P, 85P, 594P, 595P, 596P,  
1178.
- 460-581-671-950.  
6-Benzothiazolol, 2-amino-;  $HO(C_6H_4NS)NH_2$ . (Ben-  
zothiazole, 2-amino-6-hydroxy-). 18P, 85P, 594P,  
595P, 596P, 1178.
- 460-591-671-950-1011.  
Benzothiazole, 2-amino-6-ethoxy-;  $C_2H_5O(C_6H_4NS)-$   
 $NH_2$ . (Benzothiazole, 1-amino-5-ethoxy).  
Disinfectant for seeds, corms, tubers, etc. 85P, 594P,  
595P, 596P, 1178.
- 460-668-950.  
Benzothiazole, guanido-,  $Cu$ ;  $(C_6H_4NS)NHC(:NH)-$   
 $NH_2$ .  
ST *Sclerotinia fructicola* and *Botrytis paeoninae*.  
1432, 1487.
- 460-671-851-950.  
Benzothiazole, 2-amino-6-chloro-;  $Cl(C_6H_4NS)NH_2$ .  
(Benzothiazole, 1-amino-5-chloro-).  
*T Sclerotinia cinerea*, *Phoma pomi*, *Glomerella cin-*  
*gulata*, and *Botrytis cinerea*; disinfectant for seeds,  
corms, tubers, etc. 18P, 594P, 595P, 596P, 1178.
- 460-671-924.  
2,1-Naphthothiazole, 2-amino-;  $(C_{11}H_8NS)NH_2$ .  
(1,2-Naphthiazole, 1-amino-).  
Disinfectant for seeds, corms, tubers, etc. 596P, 1178.
- 460-671-950.  
Benzothiazole, 2-amino-;  $(C_6H_4NS)NH_2$ . (Benzothia-  
zole, 1-amino-).  
Disinfectant for seeds, corms, tubers, etc.; *T Fomes*  
*annosus*. 594P, 595P, 596P, 1178.
- 460-671-950-1021.  
Benzothiazole, 2-amino-4-methyl-;  $CH_3(C_6H_4NS)-$   
 $NH_2$ . (Benzothiazole, 1-amino-3-methyl-).  
Disinfectant for seeds, corms, tubers, etc. 596P,  
1178.
- 460-672-950.  
Benzothiazole, 2,5-diamino-;  $(C_6H_4NS)(NH_2)_2$ .  
(Benzothiazole, 1,4-diamino-). 18P, 85P, 594P, 595P,  
596P, 1178.
- 460-791-950.  
Benzothiazole, 2-mercapto-;  $(C_6H_4NS)SH$ . (Benzo-  
thiazole, 1-mercapto-).  
*T Fomes annosus*, *Sclerotinia cinerea*, *Phoma pomi*,  
*Glomerella cingulata*, and *Botrytis cinerea*; disin-  
fectant for seeds, corms, tubers, etc. 18P, 287, 594P,  
595P, 596P, 1178.
- 460-791-950-951-1177.  
Benzothiazole, mercapto-, phenylmercury derivative;  
 $(\text{---}C_6H_4NS)SHgC_6H_5$ ? 368P.
- 460-791-950-1244.  
Benzothiazole, mercapto-, zinc derivative;  $[(C_6H_4-$   
 $NS)S]_2Zn$ .  
*T Macrosporium sarcinaeforme* and *Sclerotinia fruc-*  
*ticola*. 288, 717.
- 460-851-951-1021-1276.  
Thiazole, 4-(*p*-chlorophenyl)-2-methyl-, hydro-  
bromide;  $Cl_3CH_4(C_6H_4NS)CH_2HBr$ . (Thiazole hy-  
drobromide, 2-methyl-4-(*p*-chlorophenyl)).  
ST *Sclerotinia fructicola* and *Botrytis paeoniae*. 647,  
1432, 1487.
- 472-1022.  
Formamide,  $\alpha,\alpha'$ -azobis(chloro-);  $CIN:C(NH_2)N:-$   
 $NC(NH_2):NCl$ . (Azochloramide).  
*T Macrosporium sarcinaeforme* and *Sclerotinia*  
*fructicola*. 289, 717.
- 477-1021.  
Methylamine,  $N,N$ -dichloro-;  $CH_3NCl_2$ . (Mono-  
methylchloramine).  
Effective in treatment of lemons and grapefruit.  
804.
- 477-1022.  
Dimethylamine, *N*-chloro-;  $(CH_3)_2NCl$ . (Dimethyl-  
chloramine).  
Effective in treatment of lemons and grapefruit to  
sterilize surface of fruit. 804.
- 494-571-924.  
2(1)-Naphthalenone, 1-chloroimine-;  $CIN:C_{10}H_6O$ .  
(*N*-Chloro-1,2-naphthoquinonimine).  
Seed disinfectant. 367P.
- 494-571-951-1021-1291.  
*o*-Toluquinonimine, *N*-chloro-;  $CH_3C_6H_4(O):NCl$ .  
Seed disinfectant. 367P.
- 494-571-951-1291.  
*p*-Quinonimine, *N*-chloro-;  $C_6H_4(O):NCl$ .  
Seed disinfectant. 367P.
- 494-857-941.  
Cyclohexane, 1-chloroiminooctachloro-;  $C_6H_2Cl_8$   
( $:NCl$ ). (Octachloro (chloroimino) hexahydroben-  
zene). 87P.
- 494-951.  
*p*-Quinonedimine,  $N,N'$ -dichloro-;  $C_6H_4(:NCl)_2$ .  
Seed disinfectant. 367P.
- 541-551-581-952-1022.  
Salicylic acid, *o*-carboxyphenyl ester;  $HOC_6H_4COOC_6-$   
 $H_4COOH$ . (Salicyl salicylate).  
MT downy mildew of tobacco. 287.
- 541-551-951-1011-1021.  
Acetylsalicylic acid;  $CH_3COOC_6H_4COOH$ . (Aspirin).  
HT mold fungi at 0.1% and MT at 0.05%; NT  
*Macrosporium sarcinaeforme* and *Sclerotinia fruc-*  
*ticola*. 289, 476.
- 541-571-588-620-842-950-951-1177-1218-1325.  
Mercurochrome;  $C_6H_5Hg_2HgNa_2O_4$ . (Disodium 2,7-  
dibromo-4-hydroxymercurifluorescein).  
T wood-destroying fungi. 60.
- 541-571-588-620-844-950-951-1021-1218.  
Eosin;  $C_{20}H_{12}Br_2Na_2O_6$ . (Tetrabromfluorescein).  
*T Rhizopus nigricans* and *Fusarium oxysporum*.  
132A, 808.
- 541-571-588-620-950-951-1021-1176-1218.  
Fluorescein, mercury salt;  $[C_{20}H_{12}NaO_6]_2Hg$ . 205P.
- 541-571-730-740-952-1023-1142.  
Benzoic acid, *o*-benzoyl-, copper nicotine salt;  
 $(C_6H_5COC_6H_4COO)_2Cu.C_{10}H_{11}N_2$ .  
*T Macrosporium sarcinaeforme*. 717.
- 541-571-952-1022.  
Benzoic acid, *o*-benzoyl-;  $C_6H_5COC_6H_4COOH$ .  
NT *Sclerotinia sclerotiorum* at 1-10,000. 728.
- 541-571-952-1022-1142.  
Benzoic acid, *o*-benzoyl-, copper salt;  $[C_6H_5COC_6-$   
 $H_4COO]_2Cu$ .  
*T Macrosporium sarcinaeforme*. 717.
- 541-581-671-951-1003-1142.  
Tyrosine, copper salt;  $[HOC_6H_4CH_2CH(NH_2)COO]_2-$   
 $Cu$ .  
T spores of *Venturia inaequalis*. 905.
- 541-581-671-951-1021.  
Salicylic acid, 5-amino-;  $H_2NC_6H_3(OH)COOH$ .  
ST mildew fungi in cotton. 476.
- 541-581-730-740-951-1011-1021-1142.  
Salicylic acid, copper nicotine salt;  $[(C_6H_4N)-$   
 $NCH_3)]_2.HOC_6H_4COO]_2Cu$ .  
*T Macrosporium sarcinaeforme*. 717.
- 541-581-924-951-1021-1177.  
1-Naphthoic acid, 2-hydroxy-, phenylmercury salt;  
 $C_6H_5HgOOC C_{10}H_6OH$ ? ( $\alpha$ -Hydroxynaphthoic acid,  
mercury salt). 368P.
- 541-581-924-951-1021-1177.  
2-Naphthoic acid, 1-hydroxy-, phenylmercury salt;  
 $C_6H_5HgOOC C_{10}H_6OH$ ? ( $\beta$ -Hydroxynaphthoic acid,  
mercury salt). 368P.
- 541-581-951-1003-1030.  
Cinnamic acid, *o*-hydroxy-;  $HOC_6H_4CH:CHCOOH$ .  
(*o*-Coumaric acid).  
MT mold fungi at 0.3% and ST at 0.1%. 476.
- 541-581-951-1003-1030.  
Cinnamic acid, *p*-hydroxy-;  $HOC_6H_4CH:CHCOOH$ .  
HT mold fungi at 0.3% and MT at 0.1%. 476.
- 541-581-951-1011.  
 $\alpha$ -Toluic acid, *p*-hydroxy-;  $HOC_6H_4CH_2COOH$ .  
ST mold fungi at 0.3-0.1%. 476.

- 541-581-951-1011.  
dl-Mandelic acid;  $C_6H_5CH(OH)COOH$ .  
T *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289, 717.
- 541-581-951-1021.  
Salicylic acid;  $HOC_6H_4COOH$ . (o-Hydroxybenzoic acid).  
T *Gloeosporium musarum* and downy mildew of tobacco; NT *Sclerotinia fructicola*. 175, 283, 287, 1213B, 1294.
- 541-581-951-1021.  
Benzene acid, p-hydroxy-;  $HOC_6H_4COOH$ .  
ATP mold fungi at 0.04%. 476.
- 541-581-951-1021-1027.  
Salicylic acid, 5-alkyl-;  $R(HO)C_6H_3COOH$ .  
T ringworm organism. 143P.
- 541-581-951-1021-1027-1246.  
Salicylic acid, 5-alkyl-, alkali metal salts;  $R(HO)C_6H_3COOM$ .  
T ringworm organism. 143P.
- 541-581-951-1021-1111.  
Salicylic acid, cadmium salt;  $(HOC_6H_4COO)_2Cd$ .  
T spores of *Tilletia tritici*. 1294.
- 541-581-951-1021-1126.  
Salicylic acid, calcium salt;  $(HOC_6H_4COO)_2Ca$ .  
T spores of *Tilletia tritici*. 1294.
- 541-581-951-1021-1142.  
Salicylic acid, copper salt;  $(HOC_6H_4COO)_2Cu$ .  
T spores of *Tilletia tritici*. 1294.
- 541-581-951-1021-1142-1325.  
Salicylic acid, basic copper salt;  $HOC_6H_4COOCuOH$ .  
T spores of *Tilletia tritici*. 1294.
- 541-581-951-1021-1162.  
Salicylic acid, iron salt;  $(HOC_6H_4COO)_2Fe$ .  
T spores of *Tilletia tritici*. 1294.
- 541-581-951-1021-1166.  
Salicylic acid, lead salt;  $(HOC_6H_4COO)_2Pb$ .  
T spores of *Tilletia tritici*. 1294.
- 541-581-951-1021-1166-1325.  
Salicylic acid, basic lead salt;  $HOC_6H_4COOPbOH$ .  
T spores of *Tilletia tritici*. 1294.
- 541-581-951-1021-1172.  
Salicylic acid, magnesium salt;  $(HOC_6H_4COO)_2Mg$ .  
T spores of *Tilletia tritici*. 1294.
- 541-581-951-1021-1176.  
Salicylic acid, mercury salt;  $(HOC_6H_4COO)_2Hg$ .  
T spores of *Tilletia tritici*. 7, 1294.
- 541-581-951-1021-1196.  
Salicylic acid, potassium salt;  $HOC_6H_4COOK$ .  
T spores of *Tilletia tritici*. 1294.
- 541-581-951-1021-1213.  
Salicylic acid, sodium salt;  $HOC_6H_4COONa$ .  
T spores of *Tilletia tritici* and *Sclerotinia fructicola* at 1-1.000. 1294.
- 541-581-951-1021-1220.  
Salicylic acid, strontium salt;  $(HOC_6H_4COO)_2Sr$ .  
T spores of *Tilletia tritici*; NT *Macrosporium sarcinaeforme*. 1294.
- 541-581-951-1021-1244.  
Salicylic acid, zinc salt;  $(HOC_6H_4COO)_2Zn$ .  
T several fungi at 0.08%, *Tilletia tritici*, and downy mildew of tobacco. 287, 476, 1294.
- 541-581-952-1021-1177.  
Benzoic acid, p-hydroxy-, phenylmercury salt;  $C_6H_5-HgOOC-C_6H_4OH$ ? 368P.
- 541-581-1003.  
Lactic acid;  $CH_3CH(OH)COOH$ . (d-2-Hydroxy propanoic acid; d-α-hydroxypropionic acid; saccolactic acid; paralactic acid).  
Injected into chestnut trees for blight control. 175, 1213B.
- 541-581-1003-1311.  
Fluoboric acid, lactato-;  $BF_3CH_3CHOHCOOH$ . 634P.
- 541-583-591-672-730-904-950-999-1011-1022.  
Acridine, 1,4-diamino-8-ethoxy-, cholic acid derivative;  $C_{24}H_{40}O_6(H_2N)_2(C_{23}H_{45}N)OC_2H_5$ . (Cholate of 2-ethoxy-6,9-diaminomacridine). 1211P.
- 541-583-952-1021-1177.  
Gallic acid, phenylmercury salt;  $C_6H_5HgOOC-C_6H_3(OH)_3$ . 368P.
- 541-588-951-1012-1176.  
Acetic acid, 2-chloroethoxymercury salt;  $ClCH_2CH_2-OHgOOCCH_3$ ? (β-Chloroethoxy mercury acetate).  
Effective in preventing *Bacterium nativum* and *Rhizoctonia solani* on cotton seeds. 1198.
- 541-588-952-951-1011-1142.  
Phenol, 2,4-dichloro-, copper acetate compound;  $Cl_2C_6H_3OH.(CH_3COO)_2Cu$ . 362P.
- 541-588-952-951-1011-1244.  
Phenol, 2,4-dichloro-, zinc acetate compound;  $Cl_2C_6H_3OH.Zn(CH_3COO)_2$ . 362P.
- 541-588-953-951-1011-1021-1142.  
p-Cresol, 2,3,6-trichloro-, copper acetate compound;  $Cl_3(C_6H_3)C_6H_3OH.(CH_3COO)_2Cu$ . (Copper acetate of 2,3,5-trichloro-4-hydroxy-1-methyl-benzene). 362P.
- 541-588-953-951-1011-1021-1244.  
p-Cresol, 2,3,6-trichloro-, zinc acetate compound;  $Cl_3C_6H_3H_3C_6H_3OH.(CH_3COO)_2Zn$ . (Zinc acetate of 2,3,5-trichloro-4-hydroxy-1-methylbenzene). 362P.
- 541-591-951-1011.  
Acetic acid, phenoxy-;  $C_6H_5OCH_2COOH$ . (Glycolic acid, phenyl ether). 1470P.
- 541-591-951-1011-1176.  
Acetic acid, p-methoxyphenylmercury salt;  $(CH_3OC_6H_4COO)_2Hg$ . (Mercury p-anisylacetate). 376P.
- 541-591-951-1011-1021-1177.  
Anisole, acetoxymercuri-;  $CH_3OC_6H_4HgOOCCH_3$ . 1238P.
- 541-591-1012-1021-1177.  
Acetic acid, 2-methoxyethylmercuric salt;  $CH_3COO-HgCH_2CH_2OCH_3$ . (Methoxyethylmercuric acetate). 1263P.
- 541-591-1012-1021-1177-1214.  
Acetic acid, 2-methoxyethylmercury salt, + soluble glass;  $CH_3COOHgCH_2CH_2OCH_2$  + soluble glass. (Methoxyethylmercuric acetate and sol. glass). Made by causing sol. organometallic compds. of Hg to react with compds. of Si capable of reaction. 318P.
- 541-591-1013-1177-1214.  
Acetic acid, 2-ethoxyethylmercury salt, + soluble glass;  $CH_3COOHgCH_2CH_2OCH_2CH_3$  + soluble glass. (Ethoxyethylmercuric acetate and sol. glass). Made by causing sol. organometallic compds. of Hg to react with compds. of Si capable of reaction. 318P.
- 541-625-1003-1030-1176.  
2-Furancarbylic acid, mercury salt;  $[(C_4H_3O)CH:CH:COO]_2Hg$ . (Mercury furacrylate).  
T *Diplodia*, *Giberella*, and *Basiporsium* on seed corn. 1131P.
- 541-625-1021-1176.  
2-Furoic acid, mercury salt;  $[(C_4H_3O)COO]_2Hg$ . (Mercury furoate).  
T *Diplodia*, *Giberella*, and *Basiporsium* on seed corn. 1131P.
- 541-671-951-1003-1142.  
Alanine, β-phenyl-, copper salt;  $[C_6H_5CH_2CH(NH_2)COO]_2Cu$ . (Copper β-phenylalaninate).  
T spores of *Venturia inaequalis*. 905.
- 541-671-951-1021.  
Benzoic acid, m-amino-;  $H_2NC_6H_4COOH$ .  
ST mildew fungi in cotton. 476.
- 541-671-951-1021.  
Benzoic acid, p-amino-;  $H_2NC_6H_4COOH$ .  
T *Macrosporium sarcinaeforme*; NT *Sclerotinia fructicola*. 289, 717, 728.
- 541-671-997-1142.  
l-Leucine, copper salt;  $[ (CH_3)_2CHCH_2CH(NH_2)COO ]_2Cu$ . (Copper l-leucinate).  
T spores of *Venturia inaequalis*. 905.
- 541-671-999-1142.  
dl-Valine, copper salt;  $[ (CH_3)_2CHCH(NH_2)COO ]_2Cu$ . (Copper dl-valinate).  
T spores of *Venturia inaequalis*. 905.
- 541-671-1003-1142.  
Alanine, copper salt;  $[CH_3CH(NH_2)COO]_2Cu$ . (Copper alaninate).  
T spores of *Venturia inaequalis*. 905.



- 541-681-952-1021.  
Benzoic acid, *o*-(*o*-chloroanilino)-;  $\text{ClC}_6\text{H}_4\text{NHC}_6\text{H}_4\text{COOH}$ . (2'-Chlorodiphenylamine-2-carboxylic acid).  
NT conidia of *Sclerotinia fructicola* and *Glomerella cingulata*. 578, 831.
- 541-681-952-1021.  
Benzoic acid, *o*-(*m*-chloroanilino)-;  $\text{ClC}_6\text{H}_4\text{NHC}_6\text{H}_4\text{COOH}$ . (3'-Chlorodiphenylamine-2-carboxylic acid).  
T conidia of *Sclerotinia fructicola* and *Glomerella cingulata*. 578, 831.
- 541-681-952-1021.  
Benzoic acid, *o*-(*p*-chloroanilino)-;  $\text{ClC}_6\text{H}_4\text{NHC}_6\text{H}_4\text{COOH}$ . (4'-Chlorodiphenylamine-2-carboxylic acid).  
T conidia of *Sclerotinia fructicola* and *Glomerella cingulata*. 578, 831.
- 541-681-952-1022.  
Benzoic acid, *o*-(*o*-toluino)-;  $\text{CH}_3\text{C}_6\text{H}_4\text{NHC}_6\text{H}_4\text{COOH}$ . (2'-Methylidiphenylamine-2-carboxylic acid).  
NT conidia of *Sclerotinia fructicola* and *Glomerella cingulata*. 578, 831.
- 541-681-952-1022.  
Benzoic acid, *o*-(*m*-toluino)-;  $\text{CH}_3\text{C}_6\text{H}_4\text{NHC}_6\text{H}_4\text{COOH}$ . (3'-Methylidiphenylamine-2-carboxylic acid).  
NT conidia of *Sclerotinia fructicola* and *Glomerella cingulata*. 578, 831.
- 541-681-952-1022.  
Benzoic acid, *o*-(*p*-toluino)-;  $\text{CH}_3\text{C}_6\text{H}_4\text{NHC}_6\text{H}_4\text{COOH}$ . (4'-Methylidiphenylamine-2-carboxylic acid).  
NT conidia of *Sclerotinia fructicola* and *Glomerella cingulata*. 578, 831.
- 541-691-951-1011-1022-1177-1214.  
Aniline, acetoxymercuri-*N,N*-dimethyl- + soluble glass;  $\text{CH}_3\text{COOHgC}_6\text{H}_4\text{N}(\text{CH}_3)_2$  + soluble glass. (Dimethylaniline-mercuric acetate and sol. glass). Made by causing sol. organometallic compds. of Hg to react with compds. of Si capable of reaction. 348P.
- 541-730-740-951-1022-1142.  
Benzoic acid, copper nicotinate salt;  $(\text{C}_6\text{H}_5\text{N})(\text{C}_6\text{H}_5\text{NCH}_2)(\text{C}_6\text{H}_5\text{COO})_2\text{Cu}$ .  
T *Macrosporium sarcinaeforme*. 717.
- 541-730-950-1021-1142.  
Quinaldic acid, copper salt;  $[(\text{C}_6\text{H}_5\text{N})\text{COO}]_2\text{Cu}$ .  
(Copper quinaldic acid).  
NT spores of *Macrosporium sarcinaeforme*, *Venturia inaequalis*, and *Phoma*. 905.
- 541-791-951-1011-1021-1177-1218.  
Merthiolate;  $\text{C}_2\text{H}_5\text{HgSC}_6\text{H}_4\text{COONa}$ ? (Sodium ethyl mercuri thiosalicylate).  
T citrus stem-end rot. 565.
- 541-791-951-1011-1177.  
Acetic acid, mercurio-, phenylmercury salt;  $\text{C}_6\text{H}_5\text{HgOOCCH}_3$ III? (Thiophenol acid, organomercury salt). 368P.
- 541-791-952-1021-1177.  
Salicylic acid, thio-, phenylmercury salt;  $\text{C}_6\text{H}_5\text{HgOOC}_6\text{H}_4\text{SH}$ . 368P.
- 541-825-950-1011-1177.  
Thianaphthene, acetoxymercuri-;  $\text{CH}_3\text{COOHgC}_{10}\text{H}_8$ .  
Seed disinfectant. 789, 1178.
- 541-825-1011-1177-1325.  
Thiophene, 2-acetoxymercuri-5-hydroxymercuri-;  $\text{CH}_3\text{COOHgC}_4\text{H}_3\text{SOHgOH}$ .  
Seed disinfectant. 789, 1178.
- 541-841-1011-1142.  
Acetic acid, bromo-, copper salt;  $(\text{BrCH}_2\text{COO})_2\text{Cu}$ .  
(Copper monobromacetate).  
NT bunt spores. 1096.
- 541-851-951-1011-1176.  
Acetic acid, *p*-chlorophenyl-, mercury salt;  $(\text{ClC}_6\text{H}_4\text{CH}_2\text{COO})_2\text{Hg}$ . (Mercury *p*-chlorophenylacetate). 376P.
- 541-851-951-1011-1177.  
Acetic acid, *o*-chlorophenylmercury salt;  $\text{ClC}_6\text{H}_4\text{HgOOCCH}_3$ . (*o*-Chloro phenyl mercuri acetate). 1238P.
- 541-851-951-1021.  
Benzoic acid, *o*-chloro-;  $\text{ClC}_6\text{H}_4\text{COOH}$ .  
T *Sclerotinia sclerotiorum* at 1-1,000. 728.
- 541-851-951-1021.  
Benzoic acid, *p*-chloro-;  $\text{ClC}_6\text{H}_4\text{COOH}$ .  
ST *Macrosporium sarcinaeforme*. 717.
- 541-851-1003.  
Propionic acid,  $\alpha$ -chloro-;  $\text{CH}_3\text{CHClCOOH}$ . 708.
- 541-851-1003.  
Propionic acid,  $\beta$ -chloro-;  $\text{ClCH}_2\text{CH}_2\text{COOH}$ . 708.
- 541-851-1011.  
Acetic acid, chloro-;  $\text{ClCH}_2\text{COOH}$ . 708.
- 541-851-1011-1142.  
Acetic acid, chloro-, cupric salt;  $(\text{ClCH}_2\text{COO})_2\text{Cu}$ .  
(Cupric monochloracetate).  
T bunt spores; inhibits seed germination. 1090.
- 541-851-1011-1311.  
Fluoboric acid, chloroacetato-;  $\text{BF}_3\text{ClCH}_2\text{COOH}$ . 634P.
- 541-852-951-1021.  
Benzoic acid, 3,4-dichloro-;  $\text{Cl}_2\text{C}_6\text{H}_3\text{COOH}$ .  
T *Macrosporium sarcinaeforme*. 717.
- 541-852-1011-1142.  
Acetic acid, dichloro-, copper salt;  $(\text{Cl}_2\text{CHCOO})_2\text{Cu}$ .  
(Copper dichloracetate).  
NT bunt spores. 1096.
- 541-853-1011-1142.  
Acetic acid, trichloro-, copper salt;  $(\text{Cl}_3\text{CCOO})_2\text{Cu}$ .  
(Copper trichloracetate).  
NT bunt spores. 1096.
- 541-861-951-1011-1177.  
Acetic acid, *p*-fluorophenylmercury salt;  $\text{FC}_6\text{H}_4\text{HgOOCCH}_3$ . (*p*-Fluoro phenyl mercuri acetate). 1238P.
- 541-861-983.  
Stearic acid, fluoro-;  $\text{FCH}_2(\text{CH}_2)_{19}\text{COOH}$ . (Monofluorostearic acid). 345P.
- 541-861-983-1030-1218.  
Oleic acid, fluoro-, sodium salt;  $\text{FC}_{17}\text{H}_{33}\text{COONa}$ . 345P.
- 541-861-983-1126.  
Stearic acid, fluoro-, calcium salt;  $(\text{FC}_{17}\text{H}_{33}\text{COO})_2\text{Ca}$ .  
(Calcium salt of monofluorostearic acid). 345P.
- 541-861-990.  
Hendecanoic acid, fluoro-;  $\text{FC}_{10}\text{H}_{21}\text{COOH}$ . (Monofluoroundecanoic acid). 345P.
- 541-861-990-1246.  
Hendecanoic acid, fluoro-, salt. (Salt of monofluoroundecanoic acid). 345P.
- 541-862-983.  
Stearic acid, difluoro-;  $\text{F}_2\text{C}_17\text{H}_{31}\text{COOH}$ . 345P.
- 541-862-983-1126.  
Stearic acid, difluoro-, calcium salt;  $(\text{F}_2\text{C}_{17}\text{H}_{31}\text{COO})_2\text{Ca}$ . 345P.
- 541-871-1003.  
Propionic acid,  $\beta$ -iodo-;  $\text{ICH}_2\text{CH}_2\text{COOH}$ . (3-Iodopropanoic acid).  
Prevents mold growth. 110, 283, 706, 708, 1391.
- 541-871-1011.  
Acetic acid, iodo-;  $\text{ICH}_2\text{COOH}$ . (Mono-iodo-acetic acid).  
A 0.001 M solution at a pH of about 2 suppresses completely both alcoholic fermentation and the formation of acids in *Aspergillus niger* cultures. 0.0004 and 0.0001 M solutions at the same pH suppress completely alcoholic fermentation but do not affect the formation of citric and oxalic acids. 49, 110.
- 541-951-1003.  
Hydrocinnamic acid;  $\text{C}_6\text{H}_5\text{CH}_2\text{CH}_2\text{COOH}$ . (Phenylpropionic acid).  
IT mold fungi at 0.2% and MT at 0.1%. 476.
- 541-951-1003-1030.  
Cinnamic acid;  $\text{C}_6\text{H}_5\text{CH}=\text{CHCOOH}$ .  
MT mold fungi at 0.1% and ST at 0.05%. 476.
- 541-951-1011.  
Acetic acid, phenyl-;  $\text{C}_6\text{H}_5\text{CH}_2\text{COOH}$ .  
IT mold fungi at 0.3% and MT at 0.02%. 476.
- 541-951-1011-1021-1176.  
Acetic acid, tolyl-, mercury salt;  $(\text{CH}_3\text{C}_6\text{H}_4\text{CH}_2\text{COO})_2\text{Hg}$ . (Mercury tolylacetate). 376P.
- 541-951-1011-1176.  
Acetic acid, phenyl-, mercury salt;  $(\text{C}_6\text{H}_5\text{CH}_2\text{COO})_2\text{Hg}$ . (Mercury phenylacetate). 376P.
- 541-951-1011-1177.  
Acetic acid, phenylmercury salt;  $\text{C}_6\text{H}_5\text{HgOOCCH}_3$ . (Phenyl mercuric acetate).  
T wood-destroying fungi, *Fomes annosus*, and *Ceratostomella pilifera*; seed disinfectant. 68, 655, 788P.
- 541-951-1021.  
Benzoic acid;  $\text{C}_6\text{H}_5\text{COOH}$ . (Benzenecarboxylic acid; phenylformic acid).  
T nearly all mycelia, wood-destroying fungi. 60, 175, 283, 786P, 1213B.

- 541-951-1021-1142.  
Benzoic acid, copper salt;  $(C_6H_5COO)_2Cu \cdot 2H_2O$ .  
(Copper benzoate dihydrate).  
T *Macrosporium sarcinaeforme*. 717.
- 541-951-1311.  
Fluoboric acid, benzoato-;  $BF_3 \cdot C_6H_5COOH$ . 634P.
- 541-983-1030.  
Oleic acid;  $C_{17}H_{33}COOH$ . (9-Octadecenoic acid).  
NT at 1%. 902.
- 541-983-1030-1142.  
Oleic acid, copper salt;  $(C_{17}H_{33}COO)_2Cu$ .  
Used as preservative for cordage. 1096.
- 541-983-1030-1311.  
Fluoboric acid, oleato-;  $BF_3 \cdot C_{17}H_{33}COOH$ . 634P.
- 541-985.  
Palmitic acid;  $C_{15}H_{31}COOH$ .  
T wood-destroying fungi. 41.
- 541-985-1011-1177.  
Palmitic acid, ethylmercury salt;  $C_2H_5HgOOCCH_2H_{21}$ .  
(Ethyl mercury palmitate).  
T as spray. 1402P.
- 541-985-1218.  
Palmitic acid, sodium salt;  $C_{15}H_{31}COONa$ .  
T wood-destroying fungi. 41.
- 541-987.  
Myristic acid;  $C_{13}H_{27}COOH$ . (Tetradecanoic acid).  
Prevents mold growth; T wood-destroying fungi. 41, 706.
- 541-987-1218.  
Myristic acid, sodium salt;  $C_{13}H_{27}COONa$ .  
T wood-destroying fungi. 41.
- 541-988.  
Tridecanoic acid;  $C_{12}H_{25}COOH$ . (n-Tridecoic acid; n-tridecyllic acid).  
Prevents mold growth. 706.
- 541-989.  
Lauric acid;  $C_{11}H_{23}COOH$ . (Dodecanoic acid).  
T wood-destroying fungi; prevents mold growth. 41, 706.
- 541-989-1218.  
Lauric acid, sodium salt;  $C_{11}H_{23}COONa$ .  
T wood-destroying fungi. 41.
- 541-990.  
Hendecanoic acid;  $C_{10}H_{21}COOH$ . (Undecanoic acid; n-undecylic acid).  
Prevents mold growth; T wood-destroying fungi. 41, 706.
- 541-990-1030.  
10-Hendecenoic acid;  $CH_2=CH(CH_2)_8COOH$ .  
Prevents mold growth. 706.
- 541-990-1218.  
Hendecanoic acid, sodium salt;  $C_{10}H_{21}COONa$ .  
(Sodium undecylate).  
T wood-destroying fungi. 41.
- 541-991.  
Capric acid;  $C_9H_{19}COOH$ . (Decanoic acid; n-capric acid; n-decoic acid; n-decyllic acid).  
Prevents mold growth; T wood-destroying fungi. 41, 706.
- 541-991-1218.  
Capric acid, sodium salt;  $C_9H_{19}COONa$ .  
T wood-destroying fungi. 41.
- 541-992.  
Pelargonic acid;  $C_8H_{17}COOH$ . (Nonanoic acid; n-nonyllic acid).  
Prevents mold growth; T wood-destroying fungi. 41, 706.
- 541-992-1218.  
Pelargonic acid, sodium salt;  $C_8H_{17}COONa$ .  
T wood-destroying fungi. 41.
- 541-993.  
Caprylic acid;  $C_7H_{15}COOH$ . (Octanoic acid; n-octoic acid; n-octyllic acid).  
Prevents mold growth; T wood-destroying fungi. 41, 706.
- 541-993-1218.  
Caprylic acid, sodium salt;  $C_7H_{15}COONa$ .  
T wood-destroying fungi. 41.
- 541-995.  
Enanthic acid;  $C_6H_{13}COOH$ . (Heptanoic acid; enanthylic acid; oenanthic acid; n-heptoic acid; n-heptylic acid).  
Aspartic acid, copper salt;  $[OOCCH_2CH(NH_2)]_2$ . 41, 706.
- 541-995-1218.  
Enanthic acid, sodium salt;  $C_6H_{13}COONa$ . (Sodium heptylate).  
T wood-destroying fungi. 41.
- 541-997.  
Caproic acid;  $C_5H_{11}COOH$ . (Hexanoic acid; n-hexoic acid).  
Prevents mold growth; T wood-destroying fungi. 41, 706.
- 541-997-1218.  
Caproic acid, sodium salt;  $C_5H_{11}COONa$ .  
ST wood-destroying fungi. 41.
- 541-999.  
Valeric acid;  $C_4H_9COOH$ . (Pentanoic acid).  
Prevents mold growth; T wood-destroying fungi. 41, 706.
- 541-999.  
Isovaleric acid;  $(CH_3)_2CHCH_2COOH$ . (3-Methylbutanoic acid; isopropylacetic acid).  
Prevents mold growth. 706.
- 541-999.  
Butyric acid,  $\alpha$ -methyl-;  $CH_3CH_2CH(CH_3)COOH$ . (Methylthylacetic acid).  
Prevents mold growth. 706.
- 541-999.  
Pivalic acid;  $(CH_3)_3CCOOH$ . (Trimethylacetic acid; 2,2-dimethylpropionic acid).  
Prevents mold growth. 706.
- 541-999-1218.  
Valeric acid, sodium salt;  $C_4H_9COONa$ .  
ST wood-destroying fungi. 41.
- 541-1001.  
Butyric acid;  $C_3H_7COOH$ . (Butanoic acid; ethylacetic acid).  
Prevents mold growth; T wood-destroying fungi, *Gloeosporium musarum*, and *Fusarium cubense*. 41, 706, 1420A.
- 541-1001.  
Isobutyric acid;  $(CH_3)_2CHCOOH$ . (2-Methylpropanoic acid; dimethylacetic acid;  $\alpha$ -methylpropionic acid).  
Prevents mold growth. 706, 1510.
- 541-1001-1011-1177.  
Acetic acid, butylmercury salt;  $CH_3COOH(CH_2)_3CH_3$ . (Butyl mercuri acetate). 3701P.
- 541-1001-1030.  
Crotonic acid;  $CH_3CH=CHCOOH$ .  
Prevents mold growth. 706.
- 541-1001-1218.  
Butyric acid, sodium salt;  $C_3H_7COONa$ .  
ST wood-destroying fungi. 41.
- 541-1003.  
Propionic acid;  $C_2H_5COOH$ . (Propanoic acid; methylacetic acid).  
Prevents mold growth; T wood-destroying fungi. 41, 706.
- 541-1003-1126.  
Propionic acid, calcium salt;  $(CH_3CH_2COO)_2Ca$ .  
T *Sclerotinia fructicola*; NT *Macrosporium sarcinaeforme*. 289, 728.
- 541-1003-1218.  
Propionic acid, sodium salt;  $CH_3CH_2COONa$ .  
Used for the prevention of mold in bread; NT *Macrosporium sarcinaeforme* and wood-destroying fungi. 41, 289, 910.
- 541-1011.  
Acetic acid;  $CH_3COOH$ . (Ethanoic acid).  
Prevents mold growth; injected into chestnut trees for blight control; T wood-destroying fungi, *Triphragmium* fungus, *Gloeosporium musarum*, and *Fusarium cubense*. 41, 175, 283, 706, 1213B, 1420A.
- 541-1011-1106.  
Acetic acid, aluminum salt;  $Al(OOCCH_3)_3$ .  
T *Sclerotinia fructicola* and *Alternaria solani*. 016A.
- 541-1011-1126.  
Acetic acid, calcium salt;  $Ca(OOCCH_3)_2$ .  
ST *Pomes annosus*. 59.
- 541-1011-1142.  
Acetic acid, cupric salt;  $(CH_3COO)_2Cu$ . (Cupric acetate, neutral).  
T bunt spores and *Fusarium cubense*. 1096.

- 541-1011-1142-1261.  
Copper aceto-arsenite;  $(\text{CH}_3\text{COO})_2\text{Cu} \cdot 3\text{Cu}(\text{AsO}_2)_2$ .  
(Paris green).  
T wheat bunt. 51, 246.
- 541-1011-1218.  
Acetic acid, sodium salt;  $\text{CH}_3\text{COONa}$ .  
ST wood-destroying fungi. 41.
- 541-1011-1240.  
Acetic acid, uranium salt.  
T *Fomes ananosus*. 59.
- 541-1011-1244.  
Acetic acid, zinc salt;  $\text{Zn}(\text{OOCCH}_3)_2$ .  
T several species wood-destroying fungi. 60.
- 541-1011-1311.  
Fluoboric acid, acetato-;  $\text{BF}_3 \cdot \text{CH}_3\text{COOH}$ . 634P.
- 541-1012-1177.  
Acetic acid, ethylmercury salt;  $\text{CH}_3\text{COOHgCH}_2\text{CH}_3$ .  
(Ethyl mercuri acetate). 302P, 370P.
- 541-1021.  
Formic acid;  $\text{HCOOH}$ . (Methanoic acid).  
Prevents mold growth; T wood-destroying and many other fungi. 41, 175, 706, 1213B.
- 541-1021-1142.  
Formic acid, copper salt;  $(\text{HCOO})_2\text{Cu}$ .  
MT bunt spores. 1096.
- 541-1021-1218.  
Formic acid, sodium salt;  $\text{HCOONa}$ .  
ST wood-destroying fungi. 41.
- 541-1045-1176.  
Organic acids, mercury salt;  $(\text{RCOO})_2\text{Hg}$ . 786P.
- 541-1045-1177-1246.  
Organic acid, mercurized, alkali salts. (Mercurized organic carboxylic acids, alkali salts of). 786P.
- 542-552-553-591-730-950-1011-1025-1030.  
Quinine, bis(salicylic acid, *o*-carboxyphenyl) compound?;  $\text{C}_{20}\text{H}_{24}\text{N}_2\text{O}_8$  ( $\text{HOOC}_6\text{H}_4\text{COOC}_6\text{H}_4\text{COOH}$ )<sub>2</sub>?  
(Quinine bis salicyl salicylate).  
T *Sclerotinia fructicola*; NT *Macrosporium sarcinaeforme*. 289.
- 542-582-1001-1110-1196.  
Tartar emetic;  $\text{KSBuOC}_2\text{H}_3\text{O}_6$ . (Potassium antimonyl tartrate).  
T *Macrosporium sarcinaeforme*; NT *Sclerotinia fructicola*. 289.
- 542-582-1001-1142.  
Tartaric acid, copper salt;  $[\text{OOCCH}(\text{OH})\text{CH}(\text{OH})\text{COO}]_2\text{Cu}$ . (Copper tartrate).  
MT bunt spores. 1096.
- 542-582-1001-1196-1218.  
Tartaric acid, potassium sodium salt;  $\text{KNaC}_4\text{H}_4\text{O}_6 \cdot 4\text{H}_2\text{O}$ . (Sodium potassium tartrate; Rochelle salt). 907P.
- 542-582-1001-1236.  
Tartaric acid, titanium acid salt;  $[\text{HOOCCH}(\text{OH})\text{CH}(\text{OH})\text{COO}]_2\text{Ti}$ . (Titanium acid tartrate).  
NT chestnut blight. 175, 1393A.
- 542-593-730-950-1011-1023-1030.  
Cinchonine, salicylic acid compound;  $\text{C}_{10}\text{H}_{22}\text{NO}_2 \cdot (\text{HOOC}_6\text{H}_4\text{COOH})_2$ . (Cinchonine salicylate).  
T *Sclerotinia fructicola*; NT *Macrosporium sarcinaeforme*. 289.
- 542-584-997-1142.  
Mucic acid, copper salt;  $[\text{CH}(\text{OH})_2\text{COO}]_2\text{Cu}$ .  
T spores of *Venturia inaequalis*. 905.
- 542-558-1001-1142-1218.  
Malic acid, copper sodium salt;  $\text{NaCuC}_4\text{H}_5\text{O}_6 \cdot 4\text{H}_2\text{O}$ . (Sodium cuprimalate).  
T spores of *Venturia inaequalis*. 905.
- 542-591-1012-1021-1177.  
Oxalic acid, 2-methoxyethylmercury salt;  $(\text{CH}_3\text{OCH}_2\text{CH}_2\text{HgOOC})_2$ . (Methoxyethylmercuric oxalate). 1263P.
- 542-668-953-1023.  
Diphenylguanidine, phthalic acid compound;  $(\text{C}_6\text{H}_5)_2\text{NHNH}_2\text{C}_6\text{H}_4(\text{HOOC})_2\text{C}_6\text{H}_4$ . (Diphenyl guanidine phthalate).  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 542-671-999-1142.  
Glutamic acid, copper salt;  $[\text{OOCCH}_2\text{CH}_2\text{CH}(\text{NH}_2)\text{COO}]_2\text{Cu}$ .  
T spores of *Venturia inaequalis*. 905.
- 542-671-1001-1142.  
Aspartic acid, copper salt;  $[\text{OOCCH}_2\text{CH}(\text{NH}_2)\text{COO}]_2\text{Cu}$ .  
T spores of *Venturia inaequalis*. 905.
- 542-951-1022.  
Phthalic acid;  $\text{C}_6\text{H}_4(\text{COOH})_2$ .  
MT *Macrosporium sarcinaeforme*; NT *Sclerotinia fructicola*. 289, 717.
- 542-951-1022-1142.  
Phthalic acid, copper salt;  $\text{C}_6\text{H}_4(\text{COO})_2\text{Cu}$ . (Copper phthalate).  
T spores of *Venturia inaequalis*. 905.
- 542-991-1142.  
Sebacic acid, copper salt;  $[\text{OOC}(\text{CH}_2)_8\text{COO}]_2\text{Cu}$ .  
T spores of *Venturia inaequalis*. 905.
- 542-997-1142.  
Adipic acid, copper salt;  $[\text{OOC}(\text{CH}_2)_4\text{COO}]_2\text{Cu}$ .  
T spores of *Venturia inaequalis*. 905.
- 542-1001.  
Succinic acid;  $\text{HOOCCH}_2\text{CH}_2\text{COOH}$ .  
ST *Macrosporium sarcinaeforme*. 717.
- 542-1001-1030.  
Fumaric acid;  $\text{HOOCCH}=\text{CHCOOH}$ .  
ST *Macrosporium sarcinaeforme*; NT *Sclerotinia fructicola*. 289, 717.
- 542-1004-1011-1177.  
Oxalic acid, propylmercury salt;  $(\text{C}_3\text{H}_7\text{HgOOC})_2$ . (Propylmercuriooxalate). 302P.
- 542-1011-1114.  
Oxalic acid, barium salt;  $\text{BaC}_2\text{O}_4$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 542-1011-1130.  
Oxalic acid, cerous salt;  $\text{Ce}_2(\text{C}_2\text{O}_4)_3 \cdot 9\text{H}_2\text{O}$ .  
T *Alternaria solani*; NT *Sclerotinia fructicola*. 916A.
- 542-1011-1142.  
Oxalic acid, copper salt;  $(\text{COO})_2\text{Cu}$ .  
HT walnut blight; T bunt spores. 961, 1096.
- 542-1012-1177.  
Oxalic acid, ethylmercury salt;  $(\text{C}_2\text{H}_5\text{HgOOC})_2$ . (Ethyl mercuric oxalate).  
T several species wood-destroying fungi. 655.
- 543-581-997.  
Citric acid;  $(\text{COOH})\text{CH}_2\text{N}(\text{OH})(\text{COOH})\text{CH}_2\text{COOH}$ . (2-Hydroxy-1, 2, 3-propanetricarboxylic acid;  $\beta$ -hydroxy triethyllylic acid).  
Injected into chestnut trees for blight control. 175, 1213B.
- 543-581-997-1142.  
Citric acid, copper salt;  $[\text{OOCCH}_2\text{C}(\text{OH})(\text{COO}-)\text{CH}_2\text{COO}]_2\text{Cu}$ . (Cupric citrate).  
T bunt spores. 1096.
- 543-582-591-730-950-1003-1011-1022-1030.  
Quinine, citric acid compound;  $\text{C}_{20}\text{H}_{24}\text{N}_2\text{O}_8 \cdot \text{C}_6\text{H}_8\text{O}_7$ . (Quinine citrate).  
ST *Macrosporium sarcinaeforme*. 717.
- 551-571-1001-1011.  
Butyric acid,  $\alpha$ -oxo-, ethyl ester;  $\text{CH}_3\text{CH}_2\text{COCOOCC}_2\text{H}_5$ . (Ethyl oxy butyrate).  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 551-581-591-951-1001-1011-1021.  
Salicylic acid, butoxyethyl ester;  $\text{HOC}_6\text{H}_4\text{COOC}_2\text{H}_4\text{OC}_2\text{H}_5$ . (Butoxyethyl salicylate).  
MT downy mildew of tobacco. 287.
- 551-581-951-993-1021.  
Salicylic acid, *sec*-octyl ester;  $\text{HOC}_6\text{H}_4\text{COOC}_8\text{H}_{17}$ .  
T organisms of ringworm type. 153P.
- 551-581-951-999-1021.  
Salicylic acid, amyl ester;  $\text{HOC}_6\text{H}_4\text{COOC}_5\text{H}_{11}$ .  
T several species wood-destroying fungi. 655.
- 551-581-951-1001.  
Salicylic acid, isobutyl ester;  $\text{HOC}_6\text{H}_4\text{COOC}_4\text{H}_9$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 551-581-951-1001-1021.  
Benzoic acid, *p*-hydroxy-, butyl ester;  $\text{HOC}_6\text{H}_4\text{COOC}_4\text{H}_9$ .  
T *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 551-581-951-1003-1021.  
Benzoic acid, *p*-hydroxy-, propyl ester;  $\text{HOC}_6\text{H}_4\text{COOC}_3\text{H}_7$ .  
T *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 551-581-951-1022.  
Salicylic acid, methyl ester;  $\text{HOC}_6\text{H}_4\text{COOCH}_3$ .  
NT *Macrosporium sarcinaeforme*. 289.

- 551-581-951-1022.  
Benzoic acid, *p*-hydroxy-, methyl ester;  $\text{HOC}_6\text{H}_4\text{-COOCH}_3$ .  
ST *Macrosporium sarcinaeforme*. 717.
- 551-581-952-1021.  
Salicylic acid, phenyl ester,  $\text{HOC}_6\text{H}_4\text{COOC}_6\text{H}_5$  (Salol).  
T *Sclerotinia fructicola*; MT mold fungi at 0.08%; NT *Macrosporium sarcinaeforme*. 289, 476.
- 551-581-952-1022.  
Salicylic acid, benzyl ester;  $\text{HOC}_6\text{H}_4\text{COOCH}_2\text{C}_6\text{H}_5$ .  
T downy mildew of tobacco; NT *Sclerotinia fructicola*. 287, 1420A.
- 551-581-952-1022.  
Benzoic acid, *p*-hydroxy-, benzyl ester;  $\text{HOC}_6\text{H}_4\text{-COOCH}_2\text{C}_6\text{H}_5$ .  
T *Sclerotinia fructicola*; NT *Macrosporium sarcinaeforme*. 289.
- 551-671-951-1022.  
Anthranilic acid, methyl ester;  $\text{H}_2\text{NC}_6\text{H}_4\text{COOCH}_3$ .  
NT *Macrosporium sarcinaeforme*. 289.
- 551-696-730-740-953-1011-1021-1030-1291.  
Nicotinium chloride, oleyloxyethyl-;  $(\text{C}_8\text{H}_7\text{NCH}_2)_2\text{-IC}_2\text{H}_4\text{N}(\text{Cl})\text{C}_2\text{H}_5\text{OOCCH}_2\text{H}_{21}$ . (Oleyloxyethylnicotinium chloride). 1334P.
- 551-696-730-950-985-1011-1021-1276.  
Quinolinium bromide, 1-stearoyloxyethyl-;  $\text{C}_8\text{H}_5\text{N}(\text{Br})\text{C}_6\text{H}_4\text{OOCCH}_2\text{H}_{28}$ . (Stearoyloxyethylquinolinium bromide). 1334P.
- 551-696-730-950-985-1011-1021-1333.  
Acridinium iodide, 10-methyl-10-palmitoyloxyethyl-;  $\text{C}_{12}\text{H}_{25}\text{N}(\text{CH}_3)(\text{I})\text{C}_6\text{H}_4\text{OOCCH}_2\text{H}_{16}$ . (Palmitoyloxyethyl-*N*-methylhydroacridinium iodide). 1334P.
- 551-696-730-983-1003-1033-1276.  
Pyridinium bromide, 1-(2-linoleyloxypropyl)-;  $\text{C}_5\text{H}_5\text{N}(\text{Br})\text{C}_6\text{H}_4\text{OOCCH}_2\text{H}_{21}$ . (Linoleyloxypropylpyridinium bromide). 1334P.
- 551-696-730-983-1011-1021-1291.  
Propinium chloride, 1-stearoyloxyethyl-;  $\text{CH}_3\text{C}_6\text{H}_4\text{N}(\text{Cl})\text{C}_6\text{H}_4\text{OOCCH}_2\text{H}_{28}$ . (Stearoyloxyethylpropinium chloride). 1334P.
- 551-701-951-990-1011-1032.  
2,4-Pentadienoic acid, 4-amyl-2-cyano-5-phenyl-, ethyl ester;  $\text{C}_5\text{H}_9\text{OOCCH}(\text{CN})\text{CHC}(\text{C}_6\text{H}_5)(\text{CHC}_6\text{H}_5)$ .  
*a*-*n*-Amyl cinnamal ethyl cyanoacetate). 604P.
- 551-701-951-993-1001-1030.  
Cinnamic acid, *a*-cyano-, octyl ester;  $\text{C}_8\text{H}_7\text{OOCCH}(\text{CN})\text{CHC}_6\text{H}_5$ . (Benzal octyl cyanoacetate). 665P.
- 551-730-950-951-1021.  
8-Quinolnol, benzoate;  $\text{C}_8\text{H}_5\text{COOC}_8\text{H}_4\text{N}$ . (8 Hydroxy-quinoline benzoate).  
T *Macrosporium sarcinaeforme*. 717.
- 551-730-950-951-1021.  
Quinolnol, benzoate, CU;  $\text{C}_8\text{H}_5\text{COOC}_8\text{H}_4\text{N}$ . (Hydroxy quinoline benzoate).  
T *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 551-841-1003-1027.  
Propionic acid, *a*-bromo-, alkyl esters;  $\text{CH}_3\text{CH}_2(\text{Br})\text{-COOR}$ . 1181.
- 551-841-1003-1027.  
Propionic acid, *β*-bromo-, alkyl esters;  $\text{BrCH}_2\text{CH}_2\text{-COOR}$ . 1181.
- 551-843-951-1011.  
Phenol, tribromo-, acetate, CU;  $\text{Br}_3\text{C}_6\text{H}_2\text{OOCCH}_3$ . (Acetyltribromophenol).  
HT mold fungi at 0.01-0.02%. 476.
- 551-851-961-1011.  
Acetic acid, chloro-, cyclohexyl ester;  $\text{CH}_3\text{ClCOOC}_6\text{H}_{11}$ . (Cyclo-hexyl monochloroacetate).  
T spores of *Aspergillus flavus*. 1085P.
- 551-851-999-1011.  
Acetic acid, chloro-, isoamyl ester;  $\text{CH}_3\text{ClCOO}(\text{CH}_2)_2\text{-CH}(\text{CH}_3)_2$ . (Isoamyl monochloroacetate).  
T spores of *Aspergillus flavus*. 1085P.
- 551-851-1003-1027.  
Propionic acid, *β*-chloro-, alkyl esters;  $\text{ClCH}_2\text{CH}_2\text{-COOR}$ . 1181.
- 551-851-1011-1021.  
Acetic acid, chloro-, methyl ester;  $\text{CH}_3\text{ClCOOCH}_3$ . (Methyl ester of monochloroacetic acid).  
Seriously impairs germination of cereal seeds. 1182P, 1510.
- 551-851-1012.  
Acetic acid, chloro-, ethyl ester;  $\text{CH}_3\text{ClCOOC}_2\text{H}_5$ . (Ethyl monochloroacetate). 1182P.
- 551-852-951-1021.  
Phenol, 2,4-dichloro-, formate;  $\text{Cl}_2\text{C}_6\text{H}_3\text{OOCH}$ . 362P.
- 551-852-1011-1027.  
Acetic acid, dichloro-, alkyl esters;  $\text{Cl}_2\text{HCCOOR}$ . 1181.
- 551-853-951-1011.  
Phenol, 2,4,5-trichloro-, acetate;  $\text{Cl}_3\text{C}_6\text{H}_2\text{OOCCH}_3$ . (2,4,5-Trichlorophenol acetate). 355P.
- 551-853-951-1011.  
Phenol, 2,4,6-trichloro-, acetate;  $\text{Cl}_3\text{C}_6\text{H}_2\text{OOCCH}_3$ . (2,4,6-Trichlorophenol acetate). 355P.
- 551-853-951-1012.  
Benzyl alcohol, *α*-trichloromethyl-, acetate;  $\text{Cl}_3\text{CCH}(\text{C}_6\text{H}_5)\text{OOCCH}_3$ . (Trichloromethylphenylcarbinol acetate).  
Parasiticide. 851P.
- 551-853-951-1022.  
*p*-Cresol, 2,3,6-trichloro-, formate;  $\text{Cl}_3\text{C}_6\text{H}(\text{CH}_3)\text{-OOCH}$ . (Formate of 2,3,5-trichloro-4-hydroxy-1-methylbenzene). 362P.
- 551-853-1001-1011.  
2-Propanol, 2-trichloromethyl-, acetate;  $\text{Cl}_3\text{CC}(\text{CH}_3)_2\text{OOCCH}_3$ . (Acetone-trichloromethyl acetate; tertiary trichlorobutyl acetate). 851P.
- 551-853-1003-1011.  
2-Propanol, 1,1,1-trichloro-, acetate;  $\text{Cl}_3\text{CCl}(\text{CH}_3)_2\text{-OOCCH}_3$ . (Trichloroisopropyl acetate). 851P.
- 551-853-1011-1027.  
Acetic acid, trichloro-, alkyl esters;  $\text{Cl}_3\text{CCOOR}$ . 1181.
- 551-854-951-1012.  
Benzyl alcohol, *p*-chloro-*α*-trichloromethyl-, acetate;  $(\text{Cl}_3\text{C})\text{CH}(\text{C}_6\text{H}_4\text{Cl})\text{OOCCH}_3$ . (Trichloromethyl-*p*-chlorophenylcarbinol acetate). (From  $\text{PhCl}$ ,  $\text{AlCl}_3$  and Chloral and subsequent acetylation).  
Parasiticide. 851P.
- 551-854-1001-1011.  
2-Propanol, 2-trichloromethyl-, chloroacetate;  $\text{CH}_3\text{-ClCOO}(\text{CH}_2)_2\text{CCl}_3$ . (Acetonechloroform monochloroacetate). 851P.
- 551-952-1011-1022.  
*o*-Toluic acid, *α*-phenyl-, ethyl ester;  $\text{C}_6\text{H}_4\text{CH}_2\text{C}_6\text{H}_4\text{-COOC}_2\text{H}_5$ . (Ethyl *o*-benzyl benzoate).  
NT *Sclerotinia fructicola* and *Macrosporium sarcinaeforme*. 289.
- 551-952-1022.  
Benzoic acid, benzyl ester;  $\text{C}_6\text{H}_5\text{COOCH}_2\text{C}_6\text{H}_5$ . (Benzylbenzoate). 289.
- 551-999-1021.  
Formic acid, amyl ester;  $\text{C}_5\text{H}_{11}\text{OOCH}$ . (Pentylmethanoate).  
T *Trichoderma lignorum*. 804.
- 551-999-1021.  
Formic acid, isoamyl ester;  $\text{C}_5\text{H}_{11}\text{OOCH}$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 552-592-951-1002-1012-1022.  
Phthalic acid, di-2-butoxyethyl ester;  $\text{C}_6\text{H}_4(\text{COOC}_2\text{H}_5)_2$ . (Dibutoxy ethyl phthalate).  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 552-592-951-1012-1024.  
Phthalic acid, di-2-methoxyethyl ester;  $\text{C}_6\text{H}_4(\text{COOC}_2\text{H}_5)_2$ . (Dimethoxy ethyl phthalate). 289.
- 552-592-951-1014-1022.  
Phthalic acid, di-2-ethoxyethyl ester;  $\text{C}_6\text{H}_4(\text{COOC}_2\text{H}_5)_2$ . (Diethoxy ethyl phthalate).  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 552-609-953-1003-1011-1023-1325-1356.  
Lecithin;  $\text{C}_{17}\text{H}_{35}\text{COOCH}_2\text{CH}(\text{OOCCH}_2\text{H}_{28})\text{CH}_2\text{OP}(\text{O})(\text{OH})\text{OCH}_2\text{CH}_2\text{N}(\text{CH}_3)_3\text{OH}$ .  
Seed disinfectant. 183P.
- 552-924-1012-1021.  
1,4-Naphthalenediol, 2-methyl-, diacetate;  $\text{C}_{10}\text{H}_6(\text{CH}_3)(\text{OOCCH}_3)_2$ . (2 Methyl, 1-4 naphthoquinone diacetate).  
T *Macrosporium sarcinaeforme*; NT *Sclerotinia fructicola*. 289, 717.
- 552-951-994-1022.  
Phthalic acid, diethyl ester;  $\text{C}_6\text{H}_4(\text{COOC}_2\text{H}_5)_2$ .

- NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 552-951-1000-1022.  
Phthalic acid, diamyl ester;  $C_6H_4(COOC_5H_{11})_2$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 552-951-1002-1022.  
Phthalic acid, dibutyl ester;  $C_6H_4(COOC_4H_9)_2$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 552-951-1012-1022.  
Phthalic acid, diethyl ester;  $C_6H_4(COOC_2H_5)_2$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 552-953-1022.  
Phthalic acid, diphenyl ester;  $C_6H_4(COOC_6H_5)_2$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 552-991-1002.  
Sebacic acid, dibutyl ester;  $C_{18}H_{36}O_{10}$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 553-583-983-1003-1030.  
Ricinolein;  $[CH_3(CH_2)_7CH(OH)CH_2CH_2CH(CH_2)_2COO]_3C_3H_5$ . (Tricinolein; glycerol triricinolein).  
NT at 1%. 902.
- 553-591-951-1013.  
Phthalic acid, carboxymethyl ethyl ester;  $C_6H_4(COOC_2H_5)COOCH_2COOC_2H_5$ . (Ethyl phthalyl ethyl glycolate).  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 553-983-1003-1020.  
Olein;  $(C_{18}H_{35}COO)_3C_3H_5$ . (Triolein; glycerol trioleate; glyceryl oleate).  
T at 1% but caused injury. 902.
- 553-1003-1003.  
Butyrin;  $(CH_3CH_2CH_2COO)_3C_3H_5$ . (Tributylin; glycerol tributyrate).  
T at 1% but caused injury. 902.
- 561-581-591-951-1011-1021.  
Bourbonal;  $HOC_6H_4(CH_3O)OC_2H_5$ . (Ethylvanillin).  
T *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 561-581-591-951-1022.  
Vanillin;  $CH_3OC_6H_4(OH)CHO$ .  
T *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 561-581-1001.  
Aldol;  $CH_3CHOHCH_2CHO$ . (Acetaldehyde;  $\beta$ -hydroxybutyraldehyde).  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 561-588-952-1021-1177.  
Benzaldehyde, *m*-hydroxy-, phenylmercury salt;  $C_6H_4H_2OC_6H_4CHO$ . (*m*-Hydroxybenzaldehyde, organomercury salt). 363P.
- 561-625-1021.  
2-Furaldehyde;  $C_5H_4OCHO$ . (Furfural).  
T *Sclerotinia fructicola* and *T. Fusarium cubense* at 3%; MT several species wood-destroying fungi; NT *Macrosporium sarcinaeforme*. 289, 655, 1420A.
- 561-853-1011.  
C'eral;  $CCl_3CHO$ . (Trichloroethanal; trichloroacetaldehyde).  
Seed disinfectant. 153P.
- 561-951-1021.  
Benzaldehyde;  $C_6H_5CHO$ .  
T wood-destroying fungi but too volatile as wood preservative; NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 60, 289.
- 561-951-1022.  
Tolualdehyde, CU;  $CH_3C_6H_4CHO$ . (Tolyl aldehyde).  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 561-1001-1030.  
Crotonaldehyde;  $CH_3CH_2CHCHO$ .  
T *Sclerotinia fructicola*; NT *Macrosporium sarcinaeforme*. 289.
- 561-1011.  
Acetaldehyde;  $CH_3CHO$ . (Ethanal; acetic anhydride; aldehyde).  
Protects oranges from decay but causes injury to rind of fruit. 804.
- 561-1021.  
Formaldehyde; HCHO.  
T many species fungi. 175, 283, 289, 770, 804, 879P, 1213B.
- 561-1021.  
Formaldehyde (with chromium oxide and  $\beta$ -naphthol). 173P, 1432.
- 561-1021.  
Paraformaldehyde;  $(CH_2O)_n \cdot nH_2O$ .  
T *Fusarium cubense*. 1420A.
- 571-582-625-950-952.  
Phenolphthalein, mercury salt. 205P.
- 571-620-950.  
Xanthone;  $O:(C_9H_6O)$ .  
T *Sclerotinia fructicola*; NT *Macrosporium sarcinaeforme*. 289.
- 571-620-950.  
Coumarin;  $O:(C_9H_6O)$ . (1,2-Benzopyrone).  
NT *Macrosporium sarcinaeforme*. 289.
- 571-671-700-1291.  
*p*-Quinomimine, 2-amino-, hydrochloride;  $O:C_6H_4(:NH)NH_2 \cdot HCl$ .  
Seed disinfectant. 367P.
- 571-691-851-951-1011-1022.  
Acetophenone, *n*-chloro-, *p*-dimethylamino-;  $CH_3COOC_6H_4N(CH_3)_2$ . (4-Chloromethyl dimethylamino-). 892P.
- 571-690-983-1003-1021-1291.  
Annonium chloride, 2-oxodimethylenbis [dimethyl-octadecyl-];  $OC(CH_2N(C)(CH_3)_2C_8H_{17})_2$ . 349P.
- 571-700-951.  
Quinomimines;  $HN:C_6H_4:O?$  (Quinomimides). 86P.
- 571-730-851-951-1003.  
Propiophenone, chloro- $\beta$ -1-piperidyl-;  $ClC_6H_4COCH_2CH_2(NC_4H_8)$ . ( $\alpha$ -Chlorobenzoyl  $\beta$ -piperidino ethane). 719P.
- 571-730-951-1003.  
Propiophenone,  $\beta$ -1-piperidyl-;  $C_6H_5COCH_2CH_2(NC_4H_8)$ . ( $\alpha$ -Benzoyl- $\beta$ -piperidino ethane). 719P.
- 571-733-1022.  
(1)-*s*-Triazole, 3,4,5,6-tetrahydro-4,6-dimethyl-;  $O:(C_2H_2N_2)(CH_3)_2$ . 361P.
- 571-742-951-1021.  
Pyrazolone, methylphenyl-, CU;  $O:(C_2H_2N_2)(CH_3)-C_6H_5$ .  
NT *Macrosporium sarcinaeforme*. 289.
- 571-742-951-1022.  
Antipyrine;  $O:(C_5HN_2)(CH_3)_2C_6H_5$ . 1-5-Dimethyl-2-phenyl-3-pyrazolone.  
NT *Macrosporium sarcinaeforme*. 289.
- 571-951-1011.  
Acetophenone;  $CH_3COC_6H_5$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 571-951-1011-1176-1291.  
Acetophenone, compound with mercuric chloride;  $HgCl_2 \cdot C_6H_5COCH_3$ . (Methyl phenyl ketone, mercuric chloride salt).  
Seed-cauterizing agent. 1499P.
- 571-952-1021-1176-1291.  
Benzophenone, compound with mercuric chloride;  $HgCl_2 \cdot C_6H_5COC_6H_5$ . (Diphenyl ketone, mercuric chloride salt).  
Seed-cauterizing agent. 1499P.
- 571-1001-1176-1350.  
2-Butanone, compound with mercuric oxide;  $3HgO \cdot CH_3COC_2H_5$ . (Methyl ethyl ketone, mercuric salt).  
Seed-cauterizing agent. 1499P.
- 571-1003.  
Acetone;  $CH_3COCH_3$ .  
NT *Fusarium cubense*. 1420A.
- 571-1003-1176-1350.  
Acetone, compound with mercuric oxide;  $3HgO \cdot 2CH_3COC_2H_5$ . (Dimethyl ketone, mercuric oxide salt).  
Seed-cauterizing agent. 1499P.
- 572-581-851-952.  
Phenanthroquinone, 4-chloro-;  $C_{14}H_7ClO_2$ .  
T *Macrosporium sarcinaeforme*, bunt, stripe disease of barley, and mold. 131P, 289.
- 572-582-910-1021.  
Chrysophanic acid;  $(O)_2(C_7H_5)(OH)_2$ . (Chrysarobin; purified Goa powder; 1,8-dihydroxy-3-methylanthraquinone).

- T *Achorion schonleinii*, 283.  
572-582-952.  
Quinhydrone;  $C_6H_4(O)_2 \cdot C_6H_4(OH)_2$  (Phenquinones).  
T bunt, stripe disease of barley, mold, *Sclerotinia fructicola*, and *Macrosporium sarcinaeforme*, 131P, 289.  
572-625.  
Succinic anhydride;  $(O)_2(C_4H_4O)$ .  
T *Macrosporium sarcinaeforme*; NT *Sclerotinia fructicola*, 289, 717.  
572-740-1177.  
Succinimide, mercurized. (Mercury succinimide). 786P.  
572-854-951.  
Chloranil;  $(O)_2C_6Cl_4$ . (Tetrachloroquinone; tetrachlorobenzoquinone; Spergon).  
T many species of fungi. 13, 287, 289.  
572-855-957.  
4-Cyclohexene-1,3-dione, pentachloro-;  $(O)_2(C_6H)Cl_5$ . (Pentachloro-m-diketocyclohexene). 87P.  
572-881-951.  
Halogen-quinones, CU.  
T bunt, stripe disease of barley, and mold, 131P.  
572-910-1021.  
Anthraquinone, 2-methyl-;  $(O)_2(C_{10}H_7)CH_3$ . ( $\beta$ -Methyl anthraquinone).  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*, 289.  
572-924-1021.  
1,4-Naphthoquinone, 2-methyl-;  $(O)_2(C_{10}H_6)CH_3$ .  
T *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*, 289, 717.  
572-951.  
Quinone;  $O=C_6H_4=O$ . (*p*-Benzoquinone; 1,4-cyclohexadienedione).  
T loaf mold. 131P, 1304.  
572-951.  
Quinone compounds.  
T bunt, stripe disease of barley, and mold. 131P.  
572-951.  
Quinones, substitution products of.  
T bunt, stripe disease of barley, and mold. 131P.  
572-951-1045.  
Quinone, homologues and analogues of.  
T bunt, stripe disease of barley, and mold. 131P.  
572-993-1142.  
2,4-Heptanedione, 6-methyl-, copper derivative? (Copper acetyl methyl isobutyl ketone).  
T *Macrosporium sarcinaeforme*, 717.  
581-591-691-981-989-1003-1011-1321.  
Cyclohexylamine, N-(3-dodecyl-2-hydroxypropyl)-N-ethyl-, hydrohalide. (Cyclohexylethyl( $\gamma$ -dodecyl- $\alpha$ - $\beta$ -hydroxypropyl)-ammonium halide). 352P.  
581-591-696-951-989-1003-1012-1021-1291.  
Ammonium chloride, benzyl(1-dodecyl-2-hydroxypropyl)diethyl-;  $C_6H_5CH_2(C_2H_5)_2N(C)CH(OC_{12}H_{25})-CH(OH)CH_3$ . (Diethylbenzyl( $\alpha$ -dodecyl- $\beta$ -hydroxypropyl)-ammonium chloride). 351P.  
581-591-696-989-1003-1023-1321.  
Ammonium halide, 3-dodecyl-2-hydroxypropyltrimethyl-;  $(CH_3)_3N(X)CH_2CH(OH)CH_2OC_{12}H_{25}$ . ( $\gamma$ -Dodecyl- $\beta$ -hydroxypropyl)trimethyl-ammonium halide). 352P.  
581-591-720-730-950-1011-1022-1030-1291.  
Quinine hydrochloride;  $C_{20}H_{24}N_4O_5 \cdot HCl$ .  
T *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*, 289.  
581-591-720-730-950-1011-1022-1030-1291.  
Quinidine hydrochloride;  $C_{20}H_{24}N_4O_5 \cdot HCl$ .  
T *Macrosporium sarcinaeforme*; NT *Sclerotinia fructicola*, 289, 717.  
581-591-720-730-950-1011-1022-1030-1389.  
Quinine sulfate;  $(C_{20}H_{24}N_4O_5)_2 \cdot H_2SO_4$ .  
ST *Macrosporium sarcinaeforme*, 717.  
581-591-720-730-950-1011-1022-1030-1389.  
Quinine bisulfate;  $C_{20}H_{24}N_4O_5 \cdot H_2SO_4$ .  
T *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*, 289.  
581-592-851-951-1012.  
Phenol, (2-chloroethoxy)-ethoxy-, CU;  $HOC_6H_4-OCH_2CH_2OCH_2CH_2Cl$ . 1095P.  
581-625-1021.  
Furfuryl alcohol, tetrahydro-;  $C_4H_6OCH_2OH$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*, 289.  
581-657-951.  
Phenol, hydrazino-, CU;  $HOC_6H_4NHNH_2$ . (Hydroxyphenylhydrazine).  
Seed disinfectant. 88P.  
581-659-951-1003.  
Acetone, *p*-hydroxyphenylhydrazone;  $HOC_6H_4NHN=C(CH_3)_2$ .  
Prevents mold, etc. on seeds. 346P.  
581-659-952-1021.  
Salicylaldehyde, *p*-hydroxyphenylhydrazone;  $HOC_6H_4CH=NNHC_6H_4OH$ .  
Prevents mold, etc. on seeds. 346P.  
581-671-951.  
Phenol, *o*-amino-;  $HOC_6H_4NH_2$ .  
T *Sclerotinia sclerotiorum* at 1,1,000; T *Macrosporium sarcinaeforme*, 289, 728.  
581-671-951.  
Phenol, *p*-amino-;  $HOC_6H_4NH_2$ .  
T mildew fungi in cotton goods and *Sclerotinia sclerotiorum*, 476, 728.  
581-671-951-1113.  
Benzenearsonic acid, 3-amino-4-hydroxy-;  $H_2O_3AsC_6H_3(OH)(NH_2)?$ . (3 Amino-4-hydroxyphenylarsonic oxide).  
T smut of barley grains. 74.  
581-671-1001.  
1-Butanol, 2-amino-;  $CH_3CH_2CH(NH_2)CH_2OH$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*, 717.  
581-671-1001.  
1-Propanol, 2-amino-2-methyl-;  $CH_3C(NH_2)(CH_3)CH_2OH$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*, 717.  
581-681-952-1270.  
Phenol, anilino-, borate, CU;  $C_6H_5NHC_6H_4OBO?$  (Mono-hydroxy-diphenyl-amine in which the hydroxyl hydrogen atom is replaced by a boric acid residue). 720P.  
581-681-961-1011.  
Ethanol, 2-cyclohexylamino-;  $C_6H_{11}NHC_6H_4CH_2OH$ .  
Cyclohexylethanolamine). 377P.  
581-691-1013.  
Ethanol, 2-diethylamino-;  $HOCH_2CH_2N(C_2H_5)_2$ , 289.  
581-693-951-1025.  
Phenol, 2,4,6-tris(dimethylaminomethyl)-;  $C_6H_2OH-[CH_2N(CH_3)_2]_3$ , 151P.  
581-698-740-950-990-1011-1022-1389.  
Indolinium methylsulfate, 2,3-dihydro-2-hendecyl-N-(2-hydroxyethyl)methyl-;  $C_{11}H_{23}(C_6H_4N)(C_2H_4OH)(CH_3)SO_3CH_3$ . (Made by reacting ethylene oxide, 2-hendecyl-2,3-dihydroindole, and dimethyl sulfate).  
Also bactericide. 520P.  
581-696-781-989-1011-1023-1321.  
Ammonium halide, dimethyl-dodecylmercaptomethyl (2-hydroxyethyl)-;  $C_{12}H_{25}SCH_2N(C_2H_4OH)(CH_3)_2X$ . (Dimethyl (hydroxyethyl) (dodecylthiomethyl) ammonium halide). 352P.  
581-700-924-1001.  
3-Naphthylamine, N-(3-hydroxybutylidene)-;  $CH_3CHOCH_2CH_2N(C_6H_4)_2$ . (Aldol  $\alpha$ -naphthyl amine).  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*, 289.  
581-720-730-950-1011-1021-1030-1291.  
Cinchonine hydrochloride;  $C_{20}H_{22}N_2O \cdot HCl$ .  
T *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*, 289.  
581-720-730-950-1011-1021-1030-1291.  
Cinchonidine hydrochloride;  $C_{20}H_{22}N_2O \cdot HCl$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*, 289.  
581-730-851-950-1021.  
Lepidine, 8-chloro-2-hydroxy;  $HOC_6H_4N(C)CH_3$ . (2-Hydroxy 8 chloro 4 methyl quinoline).  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*, 289.  
581-730-851-950-1021.  
Quinoline, 4-chloromethyl-2-hydroxy;  $HOC_6H_4NCH_2Cl$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*, 289.

- 581-730-852-950-1021.  
Quinoline, 8-chloro-4-methyl-2-hydroxy;  $\text{HOC}_6\text{H}_4\text{N}(\text{CH}_3)\text{Cl}$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 581-730-950.  
Quinoline, 2-hydroxy-;  $\text{HOC}_6\text{H}_5\text{N}$ . (o-Hydroxyquinoline).  
T *Macrosporium sarcinaeforme*, *Sclerotinia fructicola*, and cryptogamic diseases; seed disinfectant. 289, 686P, 717, 1123AP.
- 581-730-950.  
Quinoline, 8-hydroxy-;  $\text{HOC}_6\text{H}_5\text{N}$ .  
T *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 581-730-950.  
Quinoline, hydroxy-; CU;  $\text{HOC}_6\text{H}_5\text{N}$ .  
Promising control of mildew. 950.
- 581-730-950-1021.  
Lepidine, 2-hydroxy-;  $\text{HOC}_6\text{H}_4\text{NCH}_3$ . (2 Hydroxy 4 methyl quinoline).  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 581-730-950-1389.  
Quinoline, 8-hydroxy sulfate;  $\text{HOC}_6\text{H}_5\text{N.H}_2\text{SO}_4$ . (Chinosol; oxyquinoline sulfate; Sunoxol RAL; Quinosol).  
T *Trichophyton fungus* or *Microsporium audouinii*, *Timea trichophytina* (circinata), *Macrosporium sarcinaeforme*, and mildew. 283, 289, 717.
- 581-841-951.  
Phenol, o-bromo-;  $\text{BrC}_6\text{H}_4\text{OH}$ .  
HT mold fungi at 0.07%. 478.
- 581-841-951-1177-1291.  
Phenol, p-bromo-(chloromercuri)-, CU;  $\text{HOC}_6\text{H}_3(\text{Br})\text{HgCl}$ .  
MT mold fungi at 0.01%. 478.
- 581-842-951.  
Phenol, 2,4-dibromo-;  $\text{Br}_2\text{C}_6\text{H}_3\text{OH}$ .  
HT mold fungi at 0.05%. 478.
- 581-842-951-1177-1291.  
Phenol, chloromercuri-2,4-dibromo-, CU;  $\text{Br}_2\text{C}_6\text{H}_3(\text{OH})\text{HgCl}$ .  
MT mold fungi at 0.01%. 478.
- 581-843-951.  
Phenol, tribromo-, CU;  $\text{Br}_3\text{C}_6\text{H}_2\text{OH}$ .  
HT mold fungi at 0.005-0.01%. 478.
- 581-844-951-1021.  
Cresol, tetrabromo-, CU;  $\text{Br}_4\text{C}_6(\text{CH}_3)\text{OH}$ .  
HT mold fungi at 0.03%. 478.
- 581-851-924.  
2-Naphthol, 1-chloro-;  $\text{ClC}_{10}\text{H}_7\text{OH}$ . (1-Chlor  $\beta$  naphthol).  
T several species wood-destroying fungi. 60.
- 581-851-951.  
Phenol, o-chloro-;  $\text{ClC}_6\text{H}_4\text{OH}$ .  
T wood-destroying fungi but too volatile as wood preservative; NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 60, 289, 656.
- 581-851-951.  
Phenol, m-chloro-;  $\text{ClC}_6\text{H}_4\text{OH}$ .  
T wood-destroying fungi. 656.
- 581-851-951.  
Phenol, p-chloro-;  $\text{ClC}_6\text{H}_4\text{OH}$ .  
T wood-destroying fungi and *Sclerotinia sclerotiorum* at 1-1,000. 650, 728.
- 581-851-951-999.  
Phenol, 4-tert-amyl-2-chloro-;  $\text{ClC}_6\text{H}_3(\text{C}_4\text{H}_9)\text{OH}$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 581-851-951-1000.  
Phenol, 2-chloro-4,6-di-tert-amyl-;  $\text{ClC}_6\text{H}_3(\text{C}_4\text{H}_9)_2\text{OH}$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 581-851-951-1003-1021.  
Thymol, chloro-, CU;  $\text{CH}_3(\text{C}_6\text{H}_4)_2\text{C}_6\text{H}_2(\text{OH})\text{Cl}$ .  
T *Trichophyton* and various fungi. 283, 476, 831.
- 581-851-951-1003-1021.  
Carvacrol, chloro-, CU;  $\text{CH}_3(\text{CH}(\text{CH}_3)_2)_2\text{C}_6\text{H}_2(\text{OH})\text{Cl}$ . (Monochloroisothymol). 831.
- 581-851-951-1021.  
m-Cresol, 6-chloro-;  $\text{ClC}_6\text{H}_4(\text{CH}_3)\text{OH}$ . (p-Chloro-m-cresol; 4-chloro 3 hydroxytoluene).  
T *Trichophyton fungus*, *Achorion Schonleini*, and *Sclerotinia fructicola*; NT *Macrosporium sarcinaeforme*. 283, 289.
- 581-851-951-1021-1177.  
Cresols, chloro-, mercurized, CU. 780P.
- 581-851-951-1022.  
3,5-Xylenol, chloro-, CU;  $\text{ClC}_6\text{H}_3(\text{CH}_3)_2\text{OH}$ . (Chloro-sym-xylenol).  
T *Sclerotinia fructicola*; NT *Macrosporium sarcinaeforme*. 289.
- 581-851-951-1022.  
Xylenol, chloro-, CU;  $\text{ClC}_6\text{H}_3(\text{CH}_3)_2\text{OH}$ . (p-Chloro-m-xylenol).  
T *Trichophyton fungus* and *Achorion Schonleini*. 283, 831.
- 581-851-951-1177.  
Phenols, chloro-, mercurized, CU. 786P.
- 581-851-951-1177-1218.  
Phenol, chloro-, mercurized, sodium salt. 786P.
- 581-851-951-1177-1291.  
Phenol, o-chloro-chloromercuri-, CU;  $\text{HOC}_6\text{H}_3(\text{Cl})\text{HgCl}$ .  
HT mold fungi at 0.01%. 478.
- 581-851-951-1177-1291.  
Phenol, p-chloro-dichloromercuri-, CU;  $\text{HOC}_6\text{H}_3(\text{Cl})_2\text{HgCl}$ .  
T mold fungi at 0.01%. 478.
- 581-851-951-1177-1325.  
Phenol, chloro-(hydroxymercuri)-, CU;  $\text{HOC}_6\text{H}_4(\text{Cl})\text{HgOH}$ . (Hydroxymereurichlorophenol). 132P.
- 581-851-952.  
Phenol, 2-chloro-4-phenyl-;  $\text{ClC}_6\text{H}_4(\text{C}_6\text{H}_5)\text{OH}$ . (2-Chloroparaphenylphenol).  
T wood-destroying fungi and *Macrosporium sarcinaeforme*. 289, 656.
- 581-851-952.  
Phenol, 4-chloro-2-phenyl-;  $\text{ClC}_6\text{H}_3(\text{C}_6\text{H}_5)\text{OH}$ .  
T wood-destroying fungi. 655, 656, 1059P.
- 581-851-952.  
Phenol, 2-chloro-6-phenyl-;  $\text{ClC}_6\text{H}_3(\text{C}_6\text{H}_5)\text{OH}$ . (2-Chlorothophenylphenol).  
T as wood preservative. 655, 729.
- 581-851-1001.  
1-Butanol, chloro-, CU;  $\text{ClC}_4\text{H}_9\text{OH}$ . (Chlorobutanol).  
NT as fungicide. 7.
- 581-852-924.  
1-Naphthol, 2,4-dichloro-;  $\text{Cl}_2\text{C}_{10}\text{H}_7\text{OH}$ .  
T several species wood-destroying fungi. 60.
- 581-852-951.  
Phenol, 2,4-dichloro-;  $\text{Cl}_2\text{C}_6\text{H}_4\text{OH}$ .  
T wood-destroying fungi. 656.
- 581-852-951.  
Phenol, 2,5-dichloro-;  $\text{Cl}_2\text{C}_6\text{H}_4\text{OH}$ .  
T wood-destroying fungi. 656.
- 581-852-952.  
Phenol, 2,6-dichloro-4-phenyl-;  $\text{Cl}_2\text{C}_6\text{H}_2(\text{C}_6\text{H}_5)\text{OH}$ .  
T wood-destroying fungi. 656.
- 581-852-952.  
Phenol, 2,4-dichloro-6-phenyl-;  $\text{Cl}_2\text{C}_6\text{H}_3(\text{C}_6\text{H}_5)\text{OH}$ . (2,4-Dichlororthophenylphenol).  
T wood-destroying fungi. 656.
- 581-852-1003.  
2-Propanol, 1,3-dichloro-;  $\text{ClCH}_2\text{CH}(\text{OH})\text{CH}_2\text{Cl}$ . (Glycerin  $\alpha$  dichlorhydrin).  
NT *Macrosporium sarcinaeforme*. 289.
- 581-853-951.  
Phenol, 2,4-5-trichloro-;  $\text{Cl}_3\text{C}_6\text{H}_3\text{OH}$ .  
T wood-destroying fungi. 656, 1059P.
- 581-853-951.  
Phenol, 2,4,6-trichloro-;  $\text{Cl}_3\text{C}_6\text{H}_2\text{OH}$ .  
T wood-destroying fungi and cotton mildew. 476, 656, 1059P.
- 581-853-951-1011.  
Benzyl alcohol,  $\alpha$ -trichloromethyl-;  $(\text{Cl}_3\text{C})\text{CH}(\text{C}_6\text{H}_5)\text{OH}$ . (Trichloromethylphenylalcohol).  
Parasiticide. 851P.
- 581-853-951-1021.  
Cresol, trichloro-, CU;  $\text{CH}_3(\text{Cl})_3\text{C}_6\text{H}_2\text{OH}$ . 355P.
- 581-853-1001.  
2-Propanol, 2-trichloromethyl-;  $(\text{CH}_3)_2\text{C}(\text{OCl})\text{CCl}_3$ . (Acetone-chloroform).  
Parasiticide. 851P.

- 581-873-1003.  
2-Propanol, 1,1,1-trichloro-;  $\text{CCl}_3\text{CH}(\text{OH})\text{CH}_3$ .  
Parasiticide. 851P.
- 581-854-951.  
Phenol, 2,3,4,6-tetrachloro-;  $\text{Cl}_4\text{C}_6\text{HOH}$ . (Phenol, 2,4,5,6-tetrachloro-).  
T wood-destroying fungi. 656, 1059P.
- 581-854-951.  
Phenol, tetrachloro-, CU;  $\text{Cl}_4\text{C}_6\text{HOH}$ .  
T several species fungi. 60, 355P, 655, 657.
- 581-855-951.  
Phenol, pentachloro-;  $\text{Cl}_5\text{C}_6\text{OH}$ .  
T several species wood-destroying fungi. 60, 655, 729.
- 581-861-951.  
1-Octadecanol, 18-fluoro-?;  $\text{FCH}_2(\text{CH}_2)_{16}\text{CH}_2\text{OH}$ .  
Fluorooctadecyl alcohol. 345P.
- 581-887-975-1021.  
Methanes, hydroxydiaryl-, halogenated;  $\text{R}_2(\text{OH})\text{-CHX?}$ .  
T mold. 455P, 1179.
- 581-887-975-1021.  
Methanes, hydroxytriaryl-, halogenated;  $\text{R}_3(\text{OH})\text{CX?}$ .  
T mold. 455P, 1179.
- 581-904-993-1022.  
Cholesterol;  $\text{C}_{27}\text{H}_{48}\text{OH}$ .  
Seed disinfectant. 183P.
- 581-910.  
9-Anthrol;  $\text{C}_{14}\text{H}_9\text{OH}$ . (Anthranol; 9 hydroxyanthracene). 581P.
- 581-924.  
1-Naphthol;  $\text{C}_{10}\text{H}_7\text{OH}$ . ( $\alpha$ -Naphthol).  
T wood-destroying fungi and T *Fusarium cubense* at 0.5%. 60, 1420A.
- 581-924.  
2-Naphthol;  $\text{C}_{10}\text{H}_7\text{OH}$ . ( $\beta$ -Naphthol; 2-hydroxynaphthalene).  
T *Sclerotinia fructicola*, mycoses, *Fusicladium*, *Peronospora*, and T *Fusarium cubense* at 1%; NT *Macrosporium sarcinaeforme*. 60, 89P, 283, 289, 728, 1420A, 1432.
- 581-951.  
Phenol;  $\text{C}_6\text{H}_5\text{OH}$ . (Carbolic acid, hydroxybenzene).  
Injected into chestnut trees for blight control;  
T mycoses, wood-destroying fungi, and T *Fusarium cubense* at 0.25%. 175, 283, 656, 1081, 1213B, 1420A.
- 581-951-961.  
Phenol, *o*-cyclohexyl-;  $\text{C}_6\text{H}_{11}\text{C}_6\text{H}_4\text{OH}$ .  
NT *Macrosporium sarcinaeforme*. 289.
- 581-951-961.  
Phenol, *p*-cyclohexyl-;  $\text{C}_6\text{H}_{11}\text{C}_6\text{H}_4\text{OH}$ .  
NT *Macrosporium sarcinaeforme*. 289.
- 581-951-975-1027.  
Phenols, aralkyl polynuclear with general formula  $\text{C}_6\text{H}_2\text{C}(\text{R})\text{CH}_2(\text{X})$  wherein X is a phenolic radical having a hydroxyl group in one of the positions ortho and para to the aralkyl radical and selected from the class consisting of hydroxylated polynuclear aryl and hydroxylated polynuclear mono-halo-aryl radicals and R is a substituent selected from the class consisting of lower alkyl radicals. 1091P.
- 581-951-999.  
Phenol, *p*-tert-amyl-;  $\text{C}_6\text{H}_{13}\text{C}_6\text{H}_4\text{OH}$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 581-951-999-1177-1291.  
Phenol, 2-chloromercuri-4-isoamyl-;  $\text{HOC}_6\text{H}_4(\text{C}_5\text{H}_{11})\text{HgCl}$ . (2-Chloromercuri-*p*-isoamyl-phenol).  
MT mold fungi at 0.01%. 476.
- 581-951-1001.  
Phenol, butyl-, CU;  $\text{C}_4\text{H}_9\text{C}_6\text{H}_4\text{OH}$ .  
T several species wood-destroying fungi. 655.
- 581-951-1001.  
Phenol, *p*-tert-butyl-;  $\text{C}_4\text{H}_9\text{C}_6\text{H}_4\text{OH}$ .  
T *Sclerotinia sclerotiorum* at 1-10,000. 728.
- 581-951-1001-1021.  
Cresol, butyl-, CU;  $\text{C}_4\text{H}_9\text{C}_6\text{H}_3(\text{CH}_3)\text{OH}$ .  
T several species wood-destroying fungi. 656.
- 581-951-1003-1021.  
Carvacrol;  $\text{C}_9\text{H}_8\text{C}_2\text{H}_5(\text{CH}_3)\text{OH}$ . (Isothymol).  
T *Sclerotinia fructicola*; NT *Macrosporium sarcinaeforme*. 289.
- 581-951-1003-1021.  
Thymol;  $\text{C}_9\text{H}_8\text{C}_2\text{H}_5(\text{CH}_3)_2\text{OH}$ . (3-*p*-Cymenol; 3-hydroxy-1-methyl-4-isopropylbenzene).  
Injected into chestnut trees for blight control;  
T wood-destroying fungi; MT *Macrosporium sarcinaeforme*. 60, 175, 283, 655, 717, 1213B.
- 581-951-1003-1021-1291.  
Carvacrol, chloromercuri-, CU;  $\text{CH}_3(\text{C}_6\text{H}_7)\text{C}_6\text{H}_3(\text{OH})\text{-HgCl}$ .  
T pathogenic fungi and T mold fungi at 0.02%. 155A, 476, 540B.
- 581-951-1003-1177-1291.  
Phenol, 4-tert-butyl-2-chloromercuri-;  $\text{HOC}_6\text{H}_4(\text{C}_4\text{H}_9)\text{HgCl}$ . (2-Chloromercuri-*p*-tert-butylphenol).  
HT mold fungi at 0.02%. 476.
- 581-951-1011.  
Ethanol, phenyl-, CU;  $\text{C}_6\text{H}_5\text{C}_2\text{H}_5\text{OH}$ . (Phenyl ethyl alcohol).  
NT *Macrosporium sarcinaeforme*. 289.
- 581-951-1021.  
*o*-Cresol;  $\text{CH}_3\text{C}_6\text{H}_4\text{OH}$ .  
T but too volatile as wood preservative. 60.
- 581-951-1021.  
*m*-Cresol;  $\text{CH}_3\text{C}_6\text{H}_4\text{OH}$ . (*m*-Methylphenol; *m*-hydroxytoluene).  
Injected into chestnut trees for blight control;  
T but too volatile as wood preservative. 60, 175, 1213B.
- 581-951-1021.  
*p*-Cresol;  $\text{CH}_3\text{C}_6\text{H}_4\text{OH}$ . (*p*-Methylphenol; *p*-hydroxytoluene).  
Injected into chestnut trees for blight control;  
T but too volatile as wood preservative. 60, 175, 1213B.
- 581-951-1021.  
Cresol, CU;  $\text{CH}_3\text{C}_6\text{H}_4\text{OH}$ . (Cresylic acid).  
T *Fusarium cubense*; gives short evanescent control of *Phytophthora* disease of strawberry but is of doubtful value. 9, 283, 1420A.
- 581-951-1021-1177-1291.  
*o*-Cresol, chloromercuri-, CU;  $\text{HOC}_6\text{H}_3(\text{CH}_3)\text{HgCl}$ .  
HT mold fungi at 0.005-0.01%. 476.
- 581-951-1021-1177-1291.  
*p*-Cresol, 2-chloromercuri-;  $\text{HOC}_6\text{H}_3(\text{CH}_3)_2\text{HgCl}$ .  
HT mold fungi at 0.01%. 476.
- 581-951-1021-1177-1303.  
Cresol, evanomercuri-, CU;  $\text{CH}_3\text{C}_6\text{H}_4(\text{OH})\text{HgCN}$ .  
Seed disinfectant. 1249P.
- 581-951-1022.  
3,5-Xylenol;  $(\text{CH}_3)_2\text{C}_6\text{H}_3\text{OH}$ . (1,3,5-Xylenol).  
NT several species wood-destroying fungi. 655.
- 581-951-1022.  
Xylenol, CU;  $(\text{CH}_3)_2\text{C}_6\text{H}_3\text{OH}$ .  
Seed disinfectant. 183P.
- 581-951-1022-1177.  
Xylenols, mercurized. (Nuclearly mercurized xylenols).  
Used for dry disinfection of seeds, particularly for combating *Fusarium*. 1252P.
- 581-951-1113-1325-1350.  
Benzenearsinic acid, *p*-hydroxy-;  $\text{HOC}_6\text{H}_4(\text{H})\text{AsO}_2\text{H}$ . (*p*-Hydroxyphenylarsinic acid).  
ST mold fungi at 0.02%. 476.
- 581-951-1177.  
Phenol, mercurized.  
Seed disinfectant. 1249P.
- 581-951-1177-1214-1291.  
Phenol, *o*-chloromercuri-, + soluble glass;  $\text{HOC}_6\text{H}_4\text{-HgCl}$  and soluble glass. (*o*-Hydroxyphenylmercuric chloride and soluble glass).  
Seed disinfectant. 348P.
- 581-951-1177-1291.  
Phenol, *o*-chloromercuri-;  $\text{HOC}_6\text{H}_4\text{HgCl}$ .  
HT mold fungi at 0.003%. 476.
- 581-951-1177-1291.  
Phenol, *p*-chloromercuri-;  $\text{HOC}_6\text{H}_4\text{HgCl}$ .  
HT mold fungi at 0.01-0.02%. 476.
- 581-952.  
Phenol, *m*-phenyl-;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_4\text{OH}$ .  
T wood-destroying fungi. 656.
- 581-952.  
Phenol, *o*-phenyl-;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_4\text{OH}$ .  
T several species wood-destroying fungi; NT *Macrosporium sarcinaeforme*. 60, 289, 657.
- 581-952.  
Phenol, *p*-phenyl-;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_4\text{OH}$ .  
T wood-destroying fungi; NT *Macrosporium sarcinaeforme*. 289, 655, 658.



- 581-961.  
Cyclohexanol;  $C_6H_{12}OH$ .  
T *Sclerotinia fructicola*; NT *Macrosporium sarcinaeforme*. 289.
- 581-975-1021.  
Methanes, hydroxydiaryl-;  $R_2CH(OH)$ .  
T mold. 1179, 1456P.
- 581-975-1021.  
Methanes, hydroxytriaryl-;  $R_3C(OH)$ .  
T mold. 1179, 1456P.
- 581-889.  
Dodecyl alcohol;  $C_{12}H_{25}OH$ .  
T wood-destroying fungi. 41
- 581-990.  
Henderyl alcohol;  $C_{11}H_{23}OH$ . (Undecyl alcohol).  
T wood-destroying fungi. 41.
- 581-991.  
Decyl alcohol;  $C_{10}H_{21}OH$ .  
T wood-destroying fungi. 41.
- 581-992.  
Nonyl alcohol;  $C_9H_{19}OH$ .  
T wood-destroying fungi. 41.
- 581-993.  
Octyl alcohol;  $C_8H_{17}OH$ .  
T wood-destroying fungi. 41.
- 581-995.  
Heptyl alcohol;  $C_7H_{15}OH$ .  
T wood-destroying fungi. 41.
- 581-997.  
Hexyl alcohol;  $C_6H_{13}OH$ .  
T wood-destroying fungi. 41.
- 581-999.  
Amyl alcohol;  $C_5H_{11}OH$ .  
T wood-destroying fungi. 41.
- 581-1001.  
Butyl alcohol;  $C_4H_9OH$ .  
T wood-destroying fungi. 41.
- 581-1001-1030.  
2-Propen-1-ol, 2-methyl-;  $CH_2=C(CH_3)CH_2OH$ .  
(Methyl allyl alcohol).  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 581-1003.  
Propyl alcohol;  $C_3H_7OH$ .  
ST wood-destroying fungi. 41.
- 581-1003-1177-1291.  
Mercury bromide, hydroxypropyl-, CU;  $HOC_3H_6Br$ . (Propanolmercuric bromide).  
Seed disinfectant. 767P.
- 581-1011.  
Ethyl alcohol;  $C_2H_5OH$ . (Ethanol; methylcarbinol; alcohol, spirit of wine).  
T *Trichoderma lignorum*; NT wood-destroying fungi. 41, 804.
- 581-1011-1177-1291.  
Mercury chloride, hydroxyethyl-, CU;  $HOC_2H_4HgCl$ .  
(Ethanolmercuric chloride).  
Seed disinfectant. 767P, 1249P.
- 581-1021.  
Methyl alcohol;  $CH_3OH$ . (Methanol; carbinol; wood alcohol).  
Injected into chestnut trees for blight control; a downy mildew of hop. 41, 175, 1051, 1213B.
- 582-591-854-952.  
Ether, bis(dichloro-4-hydroxyphenyl)-, CU;  $HOC_6H_3Cl_2OC_6H_3Cl_2OH$ . 360P.
- 582-591-872-952.  
Ether, bis(2-hydroxy-5-iodophenyl)-;  $[HO(I)C_6H_3I_2O]$ . (Bis(2-hydroxy-5-iodophenyl)oxide).  
Seed treatment. 283.
- 582-591-975.  
Ether, bis(hydroxyaryl)-, 360P.
- 582-671-990.  
1,3-Propanediol, 2-amino-2-ethyl-;  $HOCH_2C(C_2H_5)(NH_2)CH_2OH$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 717.
- 582-672-952-1113-1291.  
Arsphenamine;  $[=AsC_6H_3(OH)(NH_2.HCl)]_2.2H_2O$  or  $ICH_3OH$ . (Solvarsan; arsenobenzol; '600'; 3,3'-diamino-4,4'-dihydroxy-arsenobenzene dihydrochloride).  
Nearly as T to germinating grain as to fungus itself. 74.
- 582-681-975.  
Amine, bis(hydroxyaryl)-, 360P.
- 582-691-951-1012.  
Cyclohexylamine, *N,N*-bis(hydroxyethyl)-;  $C_6H_{11}N(C_2H_4OH)_2$ . Diethanolcyclohexylamine). 377P.
- 582-691-975-1027.  
Amine, bis(hydroxyaryl)-, *N*-alkyl-. (Bis(hydroxy-aryl)alkyl amine), 360P.
- 582-691-1001-1012.  
Butylamine, *N,N*-bis(hydroxyethyl)-;  $C_4H_9N(C_2H_4OH)_2$ . (Butyl diethanol amine).  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 582-781-842-952.  
Sulphide, bis(5-bromo-2-hydroxyphenyl)-;  $[Br(OH)C_6H_3S]$ .  
Useful for combating mildew on roses, impregnating dead wood, and suitable for treating seed grain. 383P, 1178.
- 582-781-952-1254.  
Dihydrozen, arsenate, 2,2'-thiobis[5-hydroxyphenyl-;  $Si(C_6H_4(OH)H_2AsO_4)_2$ . (Sulphide, bis(4-hydroxyphenyl-2-arsenic acid)-).  
T mildew on roses and other plants. 383P, 1178.
- 582-783-852-952.  
Phenol, 2,2'-trithiobis[4-chloro-;  $[Cl(OH)C_6H_4S]_2$ . (Trisulphide, bis(5-chloro-2-hydroxyphenyl)-).  
T mildew on plants. 383P, 1178.
- 582-851-1003.  
1,2-Propanediol, 3-chloro-;  $CH_2OHCH(OH)CH_2Cl$ .  
(Glycerin  $\alpha$  monochlorhydrin).  
NT *Macrosporium sarcinaeforme*. 289.
- 582-852-952-1021.  
Phenol, 2,2'-methylenbis[4-chloro-;  $[Cl(OH)C_6H_4CH_2]_2$ . (Halanol, 2,2'-dihydroxy 5,5'-dichloro diphenyl 1-4 methane, compound G-4).  
T *Trichophyton fungus*. 283.
- 582-856-952-1021.  
Phenol, 2,2'-methylenbis[3,1,6-trichloro-;  $Cl_3C_6H(OH)CH_2C_6H_3Cl_3$ . 2,3'-Dihydroxy-3,5,6,3',5',6'-hexachloro diphenyl methane). 605P.
- 582-951.  
Pyrocatechol;  $C_6H_4(OH)_2$ . (Pyrocatechin; 1,2-benzenediol; catechol; 1,2-dihydroxybenzene).  
Injected into chestnut trees for blight control; T wood-destroying fungi. 60, 175, 1213B.
- 582-951.  
Resorcinol;  $C_6H_4(OH)_2$ . (1,3-Dihydroxybenzene).  
T *Trichophyton fungus* or *Arctium schmidii*. 283.
- 582-951.  
Hydroquinone;  $C_6H_4(OH)_2$ . (1,4-Dihydroxybenzene; Quinol).  
T *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 283, 289, 717.
- 582-951-961.  
Resorcinol, 4-hexyl-;  $C_6H_3C_6H_5(OH)_2$ . (Hexylresorcinol).  
NT mold fungi at 0.05%. 476.
- 582-952-1003.  
Hydroquinone, 2-( $\alpha,\alpha$ -dimethylbenzyl)-;  $C_6H_4C(CH_3)_2C_6H_5(OH)_2$ . (2-( $\alpha$ -Phenyl isopropyl) hydroquinone). 1089P.
- 582-952-1003.  
Catechol, 4-( $\alpha,\alpha$ -dimethylbenzyl)-;  $C_6H_3C(CH_3)_2C_6H_4(OH)_2$ . (4-( $\alpha$ -Phenyl isopropyl) catechol). 1089P.
- 582-952-1003.  
Resorcinol, 4-( $\alpha,\alpha$ -dimethylbenzyl)-;  $C_6H_3C(CH_3)_2C_6H_4(OH)_2$ . (4-( $\alpha$ -Phenyl isopropyl)resorcinol). 1089P.
- 582-952-1063.  
Phenol, *p,p'*-isopropylidenedi-;  $(CH_3)_2C(C_6H_4OH)_2$ . (*p,p'*-Isopropylidene bisphenol).  
NT *Macrosporium sarcinaeforme*. 289.
- 583-593-691-1015.  
Tris[2-(2-hydroxyethoxy)-ethyl] amine;  $N(CH_2CH_2OCH_2CH_2OH)_3$ . (Triethanolamine trihydroxyethyl ether).  
Disinfectant. 1420P.
- 583-671-1001.  
1,3-Propanediol, 2-amino-2-hydroxymethyl-;  $HN(C_2H_4OH)_2$ . (Tri(hydroxymethyl), amino methane).  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 717.

- 583-091-1013.  
Triethanolamine;  $N(CH_2CH_2OH)_3$ .  
T several species wood-destroying fungi. 655.
- 583-910.  
9-Anthrol, 1,8-dihydroxy-;  $C_{14}H_8(OH)_2$ . (1,8-Dihydroxyanthranol; cignolin; anthralin).  
T *Achorion schenleinii* (scalp ringworm). 283, 584P.
- 583-951.  
Pyrogallol;  $C_6H_3(OH)_3$ . (Pyrogallol acid; 1,2,3-benzenetriol; *v*-trihydroxybenzene).  
T mycoses and wood-destroying fungi. 60, 175, 283, 1213B.
- 583-951.  
Phloroglucinol;  $C_6H_3(OH)_3$ .  
Injected into chestnut trees for blight control. 175, 1213B.
- 583-953-1213-1341.  
Selenium nitrate, tris(hydroxyphenyl)-, CU;  $(HOC_6H_3)_3SeNO_3$ ? (Trihydroxytriphenyl selenium nitrate).  
ST mold fungi at 0.05%. 476.
- 583-1003.  
Glycerol;  $CH_2(OH)CH(OH)CH_2OH$ . (Glycerin; 1,2,3-propanetriol).  
NT at 1 and 2% but T at 4% *Sphaerotheca Humuli*. 47A, 902.
- 588-591-701-951-1012-1177.  
Acetonitrile, 2-(phenoxymethyl)-ethoxy-;  $CNCH_2OCH_2CH_2H_2COCH_2H_6$ .  
Seed disinfectant. 958P.
- 588-591-951-1011-1022-1177.  
Benzyl alcohol, 2-methoxyethylmercury derivative;  $CH_3OCH_2CH_2HgOCH_2C_6H_5$ .  
Used to immunize seeds. 957P.
- 588-700-1000-1011-1033-1142.  
Ethylenediamine, *N,N'*-bis(1-methyl-3-oxobutylidene)-, copper derivative;  $C_{12}H_{28}CuN_4O_2$ . (Copper derivative of ethylenediaminobisacetylacetone). 905.
- 588-730-842-950-1244.  
Quinoline, 5,7-dibromo-8-hydroxy-, zinc derivative;  $[(C_6H_4NBr_2)O]_2Zn$ .  
T *Sclerotinia fructicola*; NT *Macrosporium sarcinaeforme*. 289.
- 588-730-950-1106.  
Quinoline, 8-hydroxy-, aluminum derivative;  $[(C_6H_4N)O]_3Al$ .  
T *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289, 717.
- 588-730-950-1118.  
Quinoline, 8-hydroxy-, bismuth derivative;  $[(C_6H_4N)O]_3Bi$ .  
Seed treatment. 686P, 1123AP.
- 588-730-950-1126.  
Quinoline, 8-hydroxy-, calcium derivative;  $[(C_6H_4N)O]_2Ca$ .  
T *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289, 717.
- 588-730-950-1172.  
Quinoline, 8-hydroxy-, magnesium derivative;  $[(C_6H_4N)O]_2Mg$ .  
T *Sclerotinia fructicola*; NT *Macrosporium sarcinaeforme*. 289, 717.
- 588-730-950-1176.  
Quinoline, 8-hydroxy-, mercury derivative;  $[(C_6H_4N)O]_2Hg$ .  
Seed treatment. 686P, 1123AP.
- 588-843-951-1218.  
Phenol, tribromo-, sodium derivative; CU;  $Br_3C_6H_2ONa$ . (Tribromophenol, sodium salt).  
HT mold fungi at 0.007%. 476.
- 588-851-951-1218.  
Phenol, *o*-chloro-, sodium derivative;  $ClC_6H_4ONa$ . (Sodium orthochlorophenolate).  
T wood-destroying fungi. 656.
- 588-851-951-1218.  
Phenol, *m*-chloro-, sodium derivative;  $ClC_6H_4ONa$ . (Sodium metachlorophenolate).  
T wood-destroying fungi. 656.
- 588-851-951-1218.  
Phenol, *p*-chloro-, sodium derivative;  $ClC_6H_4ONa$ . (Sodium parachlorophenolate).  
T wood-destroying fungi. 656.
- 588-851-952-1177.  
Phenol, *o*-chloro-phenylmercury derivative;  $C_6H_5HgOC_6H_4Cl$ ? 368P.
- 588-851-952-1218.  
Phenol, 2-chloro-4-phenyl, sodium derivative;  $ClC_6H_3(C_6H_5)ONa$ .  
T wood-destroying fungi. 656.
- 588-851-952-1218.  
Phenol, 2-chloro-6-phenyl-, sodium derivative;  $ClC_6H_3(C_6H_5)ONa$ . (Sodium 2-chloroorthophenyl-phenolate).  
T wood-destroying fungi. 656.
- 588-851-952-1218.  
Phenol, 4-chloro-2-phenyl-, sodium derivative;  $ClC_6H_3(C_6H_5)ONa$ . (Sodium 4-chloro-6-phenyl-phenolate; sodium 4-chloroorthophenylphenolate).  
T several species wood-destroying fungi. 655, 656.
- 588-851-952-1218.  
Phenol, chloro-3-phenyl-, sodium derivative, CU;  $ClC_6H_3(C_6H_5)ONa$ . (Sodium monochlorometaphenylphenolate).  
T wood-destroying fungi. 656.
- 588-852-951-1142-1389.  
Phenol, 2,4-dichloro-, copper sulfate compound;  $Cl_2C_6H_3(OH)CuSO_4$ . 362P.
- 588-852-951-1218.  
Phenol, 2,4-dichloro-, sodium derivative;  $Cl_2C_6H_3ONa$ .  
T wood-destroying fungi. 656.
- 588-852-951-1218.  
Phenol, 2,5-dichloro-, sodium derivative  $Cl_2C_6H_3ONa$ .  
T wood-destroying fungi. 656.
- 588-852-951-1244-1291.  
Phenol, 2,4-dichloro-, zinc chloride compound;  $Cl_2C_6H_3(OH)ZnCl_2$ . 362P.
- 588-852-952-1218.  
Phenol, 2,4-dichloro-6-phenyl-, sodium derivative;  $Cl_2C_6H_3(C_6H_5)ONa$ . (Sodium 2,4-dichloroorthophenylphenolate).  
T wood-destroying fungi. 656.
- 588-852-952-1218.  
Phenol, 2,6-dichloro-4-phenyl-, sodium derivative;  $Cl_2C_6H_3(C_6H_5)ONa$ . (Sodium 2,6-dichloroparaphenylphenolate).  
T wood-destroying fungi. 656.
- 588-853-951-1021-1142-1389.  
*p*-Cresol, 2,3,6-trichloro-, copper sulfate compound;  $Cl_3C_6H_3(CH_3)OH.CuSO_4$ . ( $CuSO_4$  of 2,3,5-Trichloro-4-hydroxy-1-methylbenzene). 362P.
- 588-853-951-1021-1244-1291.  
*p*-Cresol, 2,3,6-trichloro-, zinc chloride compound;  $Cl_3C_6H_3(CH_3)OH.ZnCl_2$ . ( $ZnCl_2$  of 2,3,5-Trichloro-4-hydroxy-1-methylbenzene). 362P.
- 588-853-951-1218.  
Phenol, 2,4,5-trichloro-, sodium derivative;  $Cl_3C_6H_2ONa$ .  
T *Glomerella gossypii*, *Rhizoctonia*, *Pythium*, etc. 13, 656, 967P.
- 588-853-951-1218.  
Phenol, 2,4,6-trichloro-, sodium derivative;  $Cl_3C_6H_2ONa$ .  
T wood-destroying fungi. 656.
- 588-853-951-1218.  
Phenol, trichloro-, sodium derivative, CU;  $Cl_3C_6H_2ONa$ .  
Bactericide; T mold fungi at 0.007%. 355P, 476.
- 588-854-951-1218.  
Phenol, 2,3,4,6-tetrachloro-, sodium derivative;  $Cl_4C_6HONa$ .  
T wood-destroying fungi and *Macrosporium sarcinaeforme*. 289, 656.
- 588-854-951-1218.  
Phenol, tetrachloro-, sodium derivative, CU;  $Cl_4C_6HONa$ .  
T several species wood-destroying fungi. 60, 655.
- 588-855-951-1218.  
Phenol, pentachloro-, sodium derivative;  $Cl_5C_6ONa$ .  
T wood-destroying fungi and *Macrosporium sarcinaeforme*. 60, 289, 717.
- 588-924-951-1177.  
Naphthols, phenylmercury derivatives, CU;  $C_6H_5HgOC_{10}H_7$ . 368P.
- 588-924-1177-1246.  
Naphthols, mercurized alkali derivatives, CU. 786P.

- 588-951-1021-1126.  
Cresol, calcium derivative, CU;  $[\text{CH}_3\text{C}_6\text{H}_4\text{O}]_2\text{Ca}$ . (Calcium cresolate).  
NT *Sclerotinia fructicola* and *Alternaria solani*. 10P, 910A.
- 588-951-1021-1176-1303.  
Cresol, cyanomercury derivative; CU;  $\text{CH}_3\text{C}_6\text{H}_4\text{OHg-CN}$ . (Mercury cresolcyanide). 379P.
- 588-951-1021-1176-1309.  
o-Cresol, mercuric ferrucyanide derivative;  $(\text{CH}_3\text{C}_6\text{H}_4\text{-OHg})_2\text{Fe}(\text{CN})_6$ ? (Ferrocyanide mercury-o-cresol). 1257P.
- 588-951-1021-1176-1405.  
o-Cresol, mercuric thiocyanate derivative;  $\text{CH}_3\text{C}_6\text{H}_4\text{-OHgCNS}$ ? 1237P.
- 588-951-1218.  
Phenol, sodium derivative;  $\text{C}_6\text{H}_5\text{ONa}$ . (Sodium carbolate; sodium phenolate or phenate).  
Injected into chestnut trees for blight control; T mold fungi. 175, 478, 558, 1213B.
- 588-952-1003-1021-1177.  
Carvacrol, phenylmercury derivative;  $\text{C}_9\text{H}_7\text{HgOC}_6\text{H}_5\text{-(CH}_3)_2\text{CH}(\text{CH}_3)_2$ . (Isotymol, phenyl-mercury derivative). 368P.
- 588-952-1021-1177.  
p-Cresol, phenylmercury derivative;  $\text{C}_6\text{H}_5\text{HgOC}_6\text{H}_4\text{-CH}_3$ . 368P.
- 588-952-1218.  
Phenol, o-phenyl-, sodium derivative;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_4\text{ONa}$ . (o-Phenylphenol, sodium; Dowicide A).  
T various mycoses and wood-destroying fungi;  
NT *Macrosporium sarcinaeforme*. 283, 289, 656, 657.
- 588-952-1218.  
Phenol, m-phenyl-, sodium derivative;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_4\text{ONa}$ .  
T wood-destroying fungi. 656.
- 588-952-1218.  
Phenol, p-phenyl-, sodium derivative;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_4\text{ONa}$ .  
T wood-destroying fungi. 655, 656.
- 591-671-951-1011.  
o-Phenetidine;  $\text{C}_6\text{H}_5\text{OC}_6\text{H}_4\text{NH}_2$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 591-671-951-1021.  
o-Anisidine;  $\text{CH}_3\text{OC}_6\text{H}_4\text{NH}_2$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 591-691-991-1013-1321.  
Triethylamine, 2-decyloxy-, hydrohalide;  $\text{C}_{10}\text{H}_{21}\text{OC}_2\text{-H}_5\text{N}(\text{C}_2\text{H}_5)_2\text{HX}$ . (Diethyl-(decyloxyethyl) ammonium halide). 352P.
- 591-696-993-1011-1033-1321.  
Ammonium halide, trimethyl(octyloxyethyl)-;  $\text{C}_8\text{H}_{17}\text{-OC}_2\text{H}_4\text{N}(\text{CH}_3)_3\text{X}$ . 352P.
- 591-841-993-1011.  
Ether, bromoethyl octyl;  $\text{C}_8\text{H}_{17}\text{OC}_2\text{H}_4\text{Br}$ . (Octyl-oxyethyl bromide). 352P.
- 591-851-952.  
Ether, 3-chlorophenyl phenyl;  $\text{ClC}_6\text{H}_4\text{OC}_6\text{H}_5$ . (Monochlorometaphenylphenolate).  
T wood-destroying fungi. 656.
- 591-924-1045-1177-1450.  
Naphthalene, octahydromethoxy-, mercurized, CU;  $\text{C}_{10}\text{H}_8(\text{OCH}_3)_2\text{-HxX}$ .  
Grain disinfectant. 281P.
- 591-951-1001.  
Ether, butyl phenyl;  $\text{C}_4\text{H}_9\text{OC}_6\text{H}_5$ . (Butyl phenolate).  
T several species wood-destroying fungi. 657.
- 591-951-1001-1021.  
Ether, butyl tolyl, CU;  $\text{CH}_3\text{C}_6\text{H}_4\text{OC}_4\text{H}_9$ . (Butyl cresolate).  
T several species wood-destroying fungi. 657.
- 591-951-1011-1177-1291.  
Mercuric chloride, phenoxyethyl-;  $\text{C}_6\text{H}_5\text{OCH}_2\text{CH}_2\text{-HgCl}$ . 1283P.
- 591-952-1003.  
Ether, phenyl isopropylphenyl, CU;  $\text{C}_6\text{H}_5\text{OC}_6\text{H}_4\text{C}_3\text{H}_7$ . (Isopropyl diphenyl ether).  
NT *Macrosporium sarcinaeforme*. 289.
- 591-1002.  
Butyl ether;  $\text{C}_4\text{H}_9\text{OC}_6\text{H}_5$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 591-1012.  
Ethyl ether;  $\text{C}_2\text{H}_5\text{OC}_2\text{H}_5$ . (Ethoxyethane; diethyl ether; ethyl oxide; sulfuric ether).  
T *Trichoderma lignorum*. 804.
- 591-1012-1177-1291.  
Mercuric chloride, 2-ethoxyethyl-;  $(\text{CH}_3\text{CH}_2\text{CH}_2\text{OC}_2\text{-H}_5)_2\text{Hg}$ . 1263P.
- 591-1021-1177-1291.  
Mercuric chloride, o-methoxyphenyl-;  $\text{CH}_3\text{OC}_6\text{H}_4\text{-HgCl}$ . 1238P.
- 592-1013.  
Acetal;  $\text{CH}_3\text{CH}(\text{OC}_2\text{H}_5)_2$ . (1,1-Diethoxyethane; acetaldehyde diethyl acetal; ethylidene diethyl ether).  
T *Trichoderma lignorum*. 804.
- 593-843-953-1003.  
Phenol, bromo-, glyceryl derivative, CU;  $\text{CH}_2(\text{OC}_6\text{H}_4\text{-Br})\text{CH}(\text{OC}_6\text{H}_4\text{-Br})\text{CH}_2(\text{OC}_6\text{H}_4\text{-Br})$ . (Glyceryl tribromophenol).  
ST mold fungi at 0.03%. 476.
622.  
Trioxymethylene;  $(\text{CH}_2\text{O})_3$ . (Polyoxymethylene; metaformaldehyde).  
T *Sclerotium rolfsii*. 184P, 801.
- 625-692-1023-1176-1291.  
Reaction product of hydrofuramide and mercuric chloride;  $(\text{C}_4\text{H}_5\text{O})\text{CH:NCH}(\text{C}_4\text{H}_5\text{O})\text{N:CH}(\text{C}_4\text{H}_5\text{O})\text{-HgCl}_2$ ?  
T *Diplodia*, *Gibberella*, and *Basiporia* infections of seed corn. 1131P.
- 625-950.  
Dibenzofuran;  $\text{C}_{12}\text{H}_8\text{OC}_2\text{H}_4$ . (Biphenylene oxide).  
Seed disinfestant. 183P.
- 625-1177.  
Mercury furan derivative, CU.  
T *Diplodia*, *Gibberella*, and *Basiporia* infections of seed corn. 1131P.
632.  
Ethylene oxide;  $(\text{CH}_2\text{O})_2$ . (Oxirane).  
Seriously impairs germination of cereal seeds. 1510.
- 650-671-952-1022.  
Toluidine, tolylazo-, CU;  $\text{CH}_3\text{C}_6\text{H}_4\text{N:NCH}_3(\text{NH}_2)\text{-CH}_3$ . (Amino azo toluene).  
T *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 650-952.  
Triazene, diphenyl-, CU;  $\text{C}_6\text{H}_5\text{N:NNHC}_6\text{H}_5$ ? (Diazaminobenzene).  
T *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289, 361P.
- 657-951.  
Hydrazine, phenyl-;  $\text{C}_6\text{H}_5\text{NHNH}_2$ .  
T mildew fungi in cotton goods; NT *Macrosporium sarcinaeforme*. 289, 476.
- 665-671-952-1291.  
Aniline, phenylazo-, hydrochloride, CU;  $\text{C}_6\text{H}_5\text{N:NCH}_3\text{-HCl}$ . (Amino azo benzene hydrochloride).  
T *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289, 717.
- 667-951-1022.  
Biguanide, phenyl-;  $\text{C}_6\text{H}_5\text{NHC}(\text{NH})\text{NHC}(\text{NH})\text{NH}_2$ .  
T bacteria, mold and the like from impairing cellulosic structures; used at 0.1-1.0%. 47A.
- 668-701-1022.  
Guanidine, 1-cyano-;  $\text{NH}_2\text{C}(\text{NH})\text{NHCN}$ . (Dicyandiamide).  
NT *Sclerotinia sclerotiorum* at 1-1,000. 728.
- 668-952-1021.  
Guanidine, diphenyl-;  $\text{HN:C}(\text{NHC}_6\text{H}_5)_2$ .  
ST *Macrosporium sarcinaeforme*. 717, 728.
- 668-953-1021.  
Guanidine, triphenyl-;  $\text{C}_6\text{H}_5\text{N:C}(\text{NHC}_6\text{H}_5)_2$ .  
ST *Macrosporium sarcinaeforme*. 717.
- 668-1021-1341.  
Guanidine nitrate;  $\text{H}_2\text{NC}(\text{NH})\text{NH}_2\text{HNO}_3$ .  
NT *Gliomeria cingulata*. 1420A.
- 671-691-698-952-1025-1030-1291.  
Auramine;  $(\text{CH}_3)_2\text{NC}_6\text{H}_4\text{C}(\text{NH}_2)\text{-C}_6\text{H}_4\text{-N}(\text{Cl})(\text{CH}_3)_2$ . (Apyonin, yellow pyocyanin).  
T *Macrosporium sarcinaeforme*, *Sclerotinia fructicola*, and mildew on grapes. 289, 950.
- 671-691-953.  
p-Phenylenediamine, N,N-diphenyl-;  $(\text{C}_6\text{H}_5)_2\text{NC}_6\text{H}_4\text{-NH}_2$ . (Diphenylparaphenylenediamine).

- T conidia of *Sclerotinia fructicola* and *Glomerella cingulata*. 578, 831.
- 671-730-950.  
Quinoline, 5-amino-;  $\text{H}_2\text{NC}_6\text{H}_4\text{N}$ .  
HT at 0.3% and ST mold fungi at 0.1%. 476.
- 671-851-951.  
Aniline, *o*-chloro-;  $\text{ClC}_6\text{H}_4\text{NH}_2$ .  
T wood-destroying fungi but too volatile as wood preservative. 60.
- 671-851-951.  
Aniline, *m*-chloro-;  $\text{ClC}_6\text{H}_4\text{NH}_2$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 671-851-951.  
Aniline, *p*-chloro-;  $\text{ClC}_6\text{H}_4\text{NH}_2$ .  
T wood-destroying fungi and mildew fungi in cotton goods; NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 60, 289, 476.
- 671-851-1113-1177.  
Arsine oxide, *p*-aminophenyl-, mercurized. 1345P.
- 671-852-951.  
Aniline, 2,4-dichloro-;  $\text{Cl}_2\text{C}_6\text{H}_3\text{NH}_2$ .  
T wood-destroying fungi. 60.
- 671-852-951.  
Aniline, 2,5-dichloro-;  $\text{Cl}_2\text{C}_6\text{H}_3\text{NH}_2$ .  
T *Sclerotinia sclerotiorum* at 1-10,000. 728.
- 671-853-951.  
Aniline, 2,4,6-trichloro-;  $\text{Cl}_3\text{C}_6\text{H}_2\text{NH}_2$ .  
T wood-destroying fungi. 60.
- 671-924.  
1-Naphthylamine;  $\text{C}_{10}\text{H}_7\text{NH}_2$ . ( $\alpha$ -Naphthylamine).  
ST mildew fungi in cotton and *Sclerotinia fructicola*; NT *Macrosporium sarcinaeforme*. 289, 476, 728.
- 671-924.  
2-Naphthylamine;  $\text{C}_{10}\text{H}_7\text{NH}_2$ . ( $\beta$ -Naphthylamine).  
ST mildew fungi in cotton. 476.
- 671-951.  
Aniline;  $\text{C}_6\text{H}_5\text{NH}_2$ . (Phenylamine; aminobenzene).  
T *Fusarium cubense* at 0.25% and T molds and other fungi as spray. 121P, 1420A.
- 671-951-1021.  
*o*-Toluidine;  $\text{CH}_3\text{C}_6\text{H}_4\text{NH}_2$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 671-951-1021.  
*p*-Toluidine;  $\text{CH}_3\text{C}_6\text{H}_4\text{NH}_2$ .  
T *Sclerotinia sclerotiorum* at 1-1,000. 728.
- 671-951-1022.  
3,5-Xylydine?;  $(\text{CH}_3)_2\text{C}_6\text{H}_3\text{NH}_2$ . (*m*-Xylydine).  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 671-951-1022.  
Xylydine, CU;  $(\text{CH}_3)_2\text{C}_6\text{H}_3\text{NH}_2$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 671-951-1113.  
Benzenearsonic acid, *p*-amino-;  $\text{H}_2\text{NC}_6\text{H}_4\text{AsO}_2\text{H}_2$ . (*p*-Aminophenylarsinic acid).  
ST mold fungi at 0.02%. 476.
- 671-951-1113-1218.  
Atoxyl;  $\text{NH}_2\text{C}_6\text{H}_4\text{AsO}_2\text{HNa}$ . (Sodium arsunilic acid).  
Nearly as T to germinating grain as to fungus itself; formerly used in protozoal diseases but abandoned because of high toxicity. 74.
- 671-951-1113-1350.  
Arsobenzene, 4-amino-?;  $\text{H}_2\text{NC}_6\text{H}_4\text{AsO}_2$ ? (4-Aminophenylarsonic oxide).  
Nearly as T to germinating grain as to fungus itself. 74.
- 671-951-1142-1312.  
Aniline, copper fluoride compound;  $\text{C}_6\text{H}_5\text{NH}_2\cdot\text{CuF}_2$ .  
T several species wood-destroying fungi. 655.
- 671-951-1142-1359.  
Aniline, copper sulphate compound;  $\text{C}_6\text{H}_5\text{NH}_2\cdot\text{CuSO}_4$ .  
T several species wood-destroying fungi. 655.
- 671-951-1177-1291.  
Aniline hydrochloride, *p*-chloromercuri-;  $\text{ClH}_2\text{C}_6\text{H}_4\text{NH}_2\cdot\text{HCl}$ . (Hydrochloride of *p*-aminophenyl mercuric chloride).  
Seed treatment. 1215P.
- 671-951-1389.  
Aniline sulphate;  $(\text{C}_6\text{H}_5\text{NH}_2)_2\cdot\text{H}_2\text{SO}_4$ .  
Injected into chestnut trees for blight control. 175, 1213B.
- 671-952.  
2-Biphenylamine;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_4\text{NH}_2$ . (*o*-Aminodiphenyl).  
T *Sclerotinia sclerotiorum* at 1-10,000; NT *Macrosporium sarcinaeforme*. 289, 728.
- 671-952.  
Xenylamine;  $\text{C}_6\text{H}_5\text{C}_6\text{H}_4\text{NH}_2$ . (*p*-Aminodiphenyl).  
T *Sclerotinia sclerotiorum* at 1-10,000. 728.
- 671-952-1021-1113.  
Arsinic acid, aminophenylbenzyl-, CU;  $\text{H}_2\text{NC}_6\text{H}_4\text{As}(\text{CH}_2\text{C}_6\text{H}_5)(\text{OH})_2$ . 1099P.
- 671-961.  
Cyclohexylamine;  $\text{C}_6\text{H}_{11}\text{NH}_2$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 671-989.  
Dodecylamine;  $\text{C}_{12}\text{H}_{25}\text{NH}_2$ . (Laurylamine). 593P.
- 671-1001.  
Butylamine;  $\text{C}_4\text{H}_9\text{NH}_2$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 671-1021.  
Methylamine;  $\text{CH}_3\text{NH}_2$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 672-681-952.  
Diphenylamine, 2,4-diamino-;  $(\text{H}_2\text{N})_2\text{C}_6\text{H}_3\text{NHC}_6\text{H}_5$ . (2,4-Diaminodiphenylamine; oxynone).  
HT conidia of *Sclerotinia fructicola* and *Glomerella cingulata*. 287, 289, 578, 717, 1187.
- 672-681-953.  
2-Biphenylamine, *N*-(2,4-diaminophenyl)-;  $(\text{H}_2\text{N})_2\text{C}_6\text{H}_3\text{NHC}_6\text{H}_4\text{C}_6\text{H}_5$ . (2',4'-Diamino-2-phenyldiphenylamine).  
T conidia of *Sclerotinia fructicola* and *Glomerella cingulata*. 578, 831.
- 672-696-732-950-951-1023-1291.  
Safranine;  $\text{C}_{16}\text{H}_{19}\text{ClN}_4$ . (Diamino-phenyl-diphenazonium chloride).  
Results encouraging but not conclusive against mildew on grapevines. 950.
- 672-951.  
*o*-Phenylenediamine;  $\text{C}_6\text{H}_4(\text{NH}_2)_2$ . (1,2-Benzenediamine).  
T wood-destroying fungi. 60.
- 672-951.  
*m*-Phenylenediamine;  $\text{C}_6\text{H}_4(\text{NH}_2)_2$ . (1,3-Benzenediamine).  
ST mildew fungi in cotton. 476.
- 672-951.  
*p*-Phenylenediamine;  $\text{C}_6\text{H}_4(\text{NH}_2)_2$ . (1,4-Benzenediamine).  
T *Macrosporium sarcinaeforme*; ST mildew fungi on cotton; NT *Sclerotinia fructicola*. 289, 476, 717.
- 672-951-1021.  
2,4-Toluylenediamine;  $\text{CH}_3\text{C}_6\text{H}_3(\text{NH}_2)_2$ . (2,4-Diaminotoluene).  
ST *Sclerotinia sclerotiorum* at 1-1,000. 728.
- 672-952.  
Benzidine;  $\text{HN}(\text{C}_6\text{H}_4)_2\text{NH}_2$ . (4,4'-Diaminodiphenyl).  
ST mildew fungi on cotton; NT *Sclerotinia sclerotiorum* at 1-10,000. 476, 728.
- 672-952-1291.  
Benzidine hydrochloride;  $\text{NH}_2\text{C}_6\text{H}_4\text{C}_6\text{H}_4\text{NH}_2\cdot\text{HCl}$ .  
T *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 672-975-1021.  
Methane, diaminodiphenyl-. (Diamino-diphenyl methanes of the benzene series). 721P.
- 672-1011-1142-1291.  
Copper ethylenediamine chloride;  $\text{H}_2\text{NCH}_2\text{CH}_2\text{NH}_2\cdot\text{CuCl}_2$ .  
T spores of *Venturia maqualis*. 905.
- 672-1011-1142-1389.  
Copper ethylenediamine sulphate;  $\text{H}_2\text{NCH}_2\text{CH}_2\text{NH}_2\cdot\text{CuSO}_4$ .  
T spores of *Venturia inaequalis*. 905.
- 681-844-952.  
Diphenylamine, 3,3',5,5'-tetrabromo-;  $(\text{Br}_2\text{C}_6\text{H}_3)_2\text{NH}$ .  
ST conidia of *Sclerotinia fructicola* and *Glomerella cingulata*. 578, 831.

- 681-851-952.  
Diphenylamine, 4-chloro-;  $\text{ClC}_6\text{H}_4\text{NHC}_6\text{H}_5$ .  
681-854-952.  
NT *Glomerella cingulata*. 831.  
Diphenylamine, 3,3',5,5'-tetrachloro-;  $(\text{Cl}_2\text{C}_6\text{H}_3)_2\text{NH}$ .  
NT conidia of *Sclerotinia fructicola* and *Glomerella cingulata*. 575, 531.  
681-924-951.  
2-Naphthylamine, N-phenyl-;  $\text{C}_{10}\text{H}_7\text{NHC}_6\text{H}_5$  (Phenyl  $\beta$ -naphthyl amine).  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.  
681-931-1021.  
Aniline, N-methyl-;  $\text{C}_6\text{H}_5\text{NHC}_6\text{H}_5$ .  
SF mildew fungi on cotton. 476.  
681-932.  
Diphenylamine;  $(\text{C}_6\text{H}_5)_2\text{NH}$ .  
HT conidia of *Sclerotinia fructicola* and *Glomerella cingulata*. 578.  
681-952-1021.  
Benzylamine, N-phenyl-;  $\text{C}_6\text{H}_5\text{CH}_2\text{NHC}_6\text{H}_5$ ? (Benzyl aniline).  
T wood destroying fungi. 60.  
681-952-1022.  
Ditolylamine,  $\text{CU}$ ;  $(\text{CH}_3\text{C}_6\text{H}_4)_2\text{NH}$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.  
681-962.  
Dicyclohexylamine;  $(\text{C}_6\text{H}_{11})_2\text{NH}$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.  
681-994.  
Dioctylamine;  $(\text{C}_8\text{H}_{17})_2\text{NH}$ .  
T *Macrosporium sarcinaeforme*. 289.  
681-1000.  
Diarylamine;  $(\text{C}_6\text{H}_5)_2\text{NH}$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.  
681-1002.  
Dibutylamine;  $(\text{C}_4\text{H}_9)_2\text{NH}$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.  
681-1022.  
Dimethylamine;  $(\text{CH}_3)_2\text{NH}$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.  
681-1027-1177.  
R-H'-NH R'.  
Wherein R is an unsubstituted hydrocarbon radical and the group -NH-R' is a monovalent organic residue in which a C atom of the radical R' is directly attached to N.  
Seed disinfectant. 811P.  
682-924-951.  
p-Phenylenediamine, N,N'-di-2-naphthyl-;  $\text{C}_{10}\text{H}_7\text{N}(\text{NHC}_6\text{H}_4)_2$ . (Di- $\beta$ -naphthyl p-phenylenediamine).  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.  
691-696-953-1014-1021-1030-1389.  
Brilliant green;  $\text{I}(\text{C}_6\text{H}_5)_2\text{NC}_6\text{H}_4\text{C}(\text{C}_6\text{H}_5): \text{C}_6\text{H}_4\text{N}(\text{C}_2\text{H}_5)_2\text{SO}_4$ .  
T *Macrosporium sarcinaeforme*, *Sclerotinia fructicola*, and mildew on grapes. 289, 950.  
691-696-953-1025-1030-1291.  
Methyl green;  
 $\text{Cl}(\text{CH}_3)_2\text{N}(\text{C}_6\text{H}_4)\text{C}(\text{C}_6\text{H}_5)_2\text{CH}(\text{C}_6\text{H}_5)\text{N}(\text{CH}_3)_2$ .  
Injected into chestnut trees for blight control. 175, 1213B.  
691-696-953-1025-1030-1291.  
Malaebite green;  
 $(\text{CH}_3)_2\text{N}(\text{C}_6\text{H}_4)\text{C}(\text{C}_6\text{H}_5)_2\text{CH}(\text{C}_6\text{H}_5)\text{N}(\text{CH}_3)_2\text{Cl}$ .  
T *Sclerotinia sclerotiorum* at 1-1,000. 728.  
691-696-989-999-1014-1021-1276.  
Ammonium bromide, 2-butensyl(diethylaminoethyl)-dodecylethyl-;  
 $(\text{C}_6\text{H}_5)_2\text{NC}_2\text{H}_4\text{N}(\text{CH}_2\text{CH}(\text{CH}_3)(\text{C}_2\text{H}_5)(\text{C}_2\text{H}_5)_2\text{Br}$ .  
Ethylerotyl(diethylaminoethyl)dodecyl ammonium bromide). 351P.  
691-696-989-1011-1021-1321.  
Ammonium halide, (dodecylmethylaminoethyl) trimethyl-;  $\text{C}_{12}\text{H}_{25}\text{N}(\text{CH}_3)_2\text{C}_2\text{H}_4\text{N}(\text{CH}_3)_3\text{X}$ . 352P.  
691-696-991-1011-1024-1321.  
Ammonium halide, (decylmethylaminoethyl) trimethyl-;  $\text{C}_{10}\text{H}_{21}\text{N}(\text{CH}_3)_2\text{C}_2\text{H}_4\text{N}(\text{CH}_3)_3\text{X}$ . 352P.  
691-951-1012.  
Aniline, N,N-diethyl-;  $\text{C}_6\text{H}_5\text{N}(\text{C}_2\text{H}_5)_2$ . Diethyl aniline).  
NT *Macrosporium sarcinaeforme*. 289.  
691-951-1022.  
Aniline, N,N-dimethyl-;  $\text{C}_6\text{H}_5\text{N}(\text{CH}_3)_2$ . (Dimethyl aniline).  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.  
691-951-1022-1177-1291.  
Aniline, p-chloromercuri-N,N-dimethyl-, hydrochloride;  $\text{ClH}_2\text{C}_6\text{H}_4\text{N}(\text{CH}_3)_2\text{HCl}$ . (Hydrochloride of p-dimethylmercuriophenyl mercury chloride).  
Seed treatment. 1215P.  
691-952-1011-1021.  
Benzylamine, N-ethyl-N-phenyl-;  $\text{C}_6\text{H}_5\text{N}(\text{CH}_2\text{C}_6\text{H}_5)(\text{C}_2\text{H}_5)$ . (Ethyl benzyl aniline).  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.  
691-983-1022.  
Octadecylamine, N,N-dimethyl-;  $\text{CH}_3(\text{CH}_2)_{16}\text{N}(\text{CH}_3)_2$ . (Dimethyloctadecylamine).  
Bactericide. 349P.  
691-989.  
Tridodecylamine;  $\text{I}(\text{CH}_3(\text{CH}_2)_{11})_3\text{N}$ . (Trilaurylamine). 353P.  
691-1002.  
Tributylamine;  $(\text{C}_4\text{H}_9)_3\text{N}$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.  
691-1023.  
Trimethylamine;  $(\text{CH}_3)_3\text{N}$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.  
692-696-953-1025-1030-1291.  
Methyrosaniline;  $\text{I}(\text{CH}_3)_2\text{NC}_6\text{H}_4\text{C}(\text{C}_6\text{H}_5)_2\text{N}(\text{CH}_3)_2\text{Cl}$ .  $\text{X} = \text{H}$  or  $\text{CH}_3$ . (Gentian violet; methyl violet; crystal violet; aniline violet).  
T *Trichophyton fusens* and also other yeasts. 281.  
692-730-950-1024-1244-1291.  
Acridine orange;  $(\text{CH}_3)_2\text{NC}_6\text{H}_4\text{N}(\text{CH}_3)_2\text{I}(\text{CH}_3)_2\text{HCl} + \text{ZnCl}_2$ .  
Results encouraging but not conclusive against mildew on grapes. 950.  
696-781-989-1023-1321.  
Ammonium halide, dodecyl(dodecylthiomethyl)-dimethyl-, 352P.  
696-781-993-1013-1021-1321.  
Ammonium halide, diethylmethyl(oethylthioethyl)-, 352P.  
696-781-1027-1321.  
Quaternary ammonium halides containing only one quaternary nitrogen atom which is once substituted by an alkylthioalkyl group of 8 to 20 carbon atoms and which quaternary nitrogen atom is otherwise substituted only by saturated lower alkyl groups as organic substituents and by the anion of a hydrohalic acid:  $\text{R}^1\text{NC}(\text{H})_2\text{NR}^2\text{R}^3\text{R}^4\text{X}$ . 1384P.  
696-951-989-1004-1021-1033-1276.  
Ammonium bromide, diallyldodecylthioethyl-;  $\text{N}(\text{C}_2\text{H}_5)_2(\text{CH}_2\text{CH}_2)_2(\text{C}_2\text{H}_5)_2\text{Br}$ . 351P.  
696-951-989-1011-1022-1276.  
Ammonium bromide, benzyl(dodecylethylmethyl)-;  $\text{N}(\text{C}_2\text{H}_5)_2(\text{C}_6\text{H}_5)(\text{C}_{12}\text{H}_{25})(\text{C}_2\text{H}_5)_2\text{Br}$ . 351P.  
696-951-989-1012-1021-1276.  
Ammonium bromide, benzyl(dodecylethyl)-;  $\text{N}(\text{CH}_2\text{C}_6\text{H}_5)(\text{C}_2\text{H}_5)_2(\text{C}_2\text{H}_5)_2\text{Br}$ . 351P.  
696-951-993-1012-1021-1276.  
Ammonium bromide, benzyl(dodecylethyl)-;  $\text{N}(\text{CH}_2\text{C}_6\text{H}_5)(\text{C}_2\text{H}_5)_2(\text{C}_2\text{H}_5)_2\text{Br}$ . 351P.  
696-951-993-1012-1021-1276.  
Ammonium bromide, allyldodecylthioethyl-;  $\text{N}(\text{C}_2\text{H}_5)_2(\text{C}_2\text{H}_5)_2(\text{C}_2\text{H}_5)_2\text{Br}$ . 351P.  
696-951-993-1012-1021-1276.  
Ammonium bromide, ethylenbis [dodecylmethyl-];  $\text{I}(\text{CH}_3)_2\text{N}(\text{C}_2\text{H}_5)_2(\text{Br})\text{CH}_2\text{CH}_2\text{Br}$ . 349P.  
696-989-1023-1321.  
Ammonium halide, dodecyltrimethyl-,  $\text{C}_{12}\text{H}_{25}\text{N}(\text{CH}_3)_3\text{X}$ . 352P.  
696-1027-1321.  
Ammonium halide, tetraalkyl-,  $\text{R}_4\text{NX}$ . (Trialkyl-ammoniumalkyl halide). 349P.  
696-1045-1450.  
Quaternary polyammonium compounds containing, at

- tached to a quaternary nitrogen atom which is connected with another quaternary nitrogen atom by a lower aliphatic radical, at least one aliphatic hydrocarbon radical from 8 to 18 carbon atoms, and containing upon each quaternary nitrogen atom an anion selected from the group consisting of the hydroxyl anion and the anions of mineral and carboxylic acids, the excess valences of the nitrogen atoms being satisfied by radicals selected from the group consisting of alkyl, alkenyl, and aralkyl radicals. 1383P.
- 696-1450.  
Quaternary ammonium salts such as the chlorides, sulfates, alkyl sulfates, phosphates, bromides, iodides, fluorides, formates, acetates, lactates, citrates, thiocyanates, sulleylates, etc. 144P.
- 700-951-1011.  
Aniline, *N*-ethylidene-;  $C_6H_5N:CHCH_3$ . (Ethylidene aniline).  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 700-1045-1177.  
Mercury derivatives of imides. 786P.
- 701-851-1021.  
Cyanogen chloride; CNCL (Chlorine cyanide).  
T some species *Fusarium*, *Aserchyta*, *Colletotrichum* and *Sclerotium*. 804, 1041.
- 701-988.  
Tridecanenitrile;  $C_{13}H_{25}CN$ . (Lauryl cyanide). 593P.
- 701-1045.  
Nitriles. (Cyano compounds)  
Specially pronounced fungicidal effect. 1023P.
- 702-951-1021.  
Phthalonitrile;  $C_8H_4(CN)_2$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
730.  
Pyridine;  $C_5H_5N$ .  
T wood-destroying fungi; NT *Fusarium cubense* at 1%, 60, 655, 1420A.
- 730-740-1021-1142-1405.  
Copper thiocyanate, nicotine complex;  $Cu(CNS)_2 \cdot C_6H_4N_2$ . (Copper nicotine thiocyanate).  
T *Macrosporium sarcinaeforme*. 717.
- 730-851-950-1023.  
Quinoline, 7-ethoxy-2,3-dihydro-2,2,4-trimethyl-;  $Cl \cdot (C_6H_4N)(CH_3)_3$ .  
T *Sclerotinia fructicola*; NT *Macrosporium sarcinaeforme*. 289.
- 730-950.  
Quinoline;  $C_9H_7N$ .  
T *Phymatotrichum omnivorum*. 1162.
- 730-950.  
Isoquinoline;  $C_9H_7N$ . (Benzo [c] pyridine; 2-benzazine; leucoline).  
T *Phymatotrichum omnivorum*. 1162.
- 730-950.  
Acridine;  $C_{13}H_9N$ .  
T *Fusicladium* and *Peronospora*. 89P.
- 730-950-1003-1022.  
Quinoline, 2,3-dimethyl-8-propyl-;  $C_3H_7(CH_3)_2C_8H_4N$ .  
T *Phymatotrichum omnivorum*. 1162.
- 730-950-1011-1022.  
Quinoline, 2,3-dimethyl-8-ethyl-;  $(CH_3)_2C_8H_4N$ .  
T *Phymatotrichum omnivorum*. 1162.
- 730-950-1021.  
Quinaldine;  $CH_3C_9H_6N$ . (2-Methylquinoline).  
T *Phymatotrichum omnivorum*. 1162.
- 730-950-1021.  
Leptidine;  $CH_3C_8H_6N$ . (4-Methylquinoline).  
T *Phymatotrichum omnivorum*. 1162.
- 730-950-1021.  
Quinoline, 6-methyl-;  $CH_3C_8H_6N$ .  
T *Phymatotrichum omnivorum*. 1162.
- 730-950-1021.  
Quinoline, 7-methyl-;  $CH_3C_8H_6N$ .  
T *Phymatotrichum omnivorum*. 1162.
- 730-950-1021.  
Quinoline, 8-methyl-;  $CH_3C_8H_6N$ .  
T *Phymatotrichum omnivorum*. 1162.
- 730-950-1022.  
Quinoline, 2,4-dimethyl-;  $(CH_3)_2C_8H_5N$ .  
T *Phymatotrichum omnivorum*. 1162.
- 730-950-1022.  
*p*-Toluquinaldine;  $(CH_3)_2C_9H_7N$ . (2,6-Dimethylquinoline; 6-methylquinaldine).  
T *Phymatotrichum omnivorum*. 1162.
- 730-950-1023.  
Quinoline, 2,3,8-trimethyl-;  $(CH_3)_3C_8H_4N$ .  
T *Phymatotrichum omnivorum*. 1162.
- 730-950-1023.  
Quinoline, 2,4,8-trimethyl-;  $(CH_3)_3C_8H_3N$ .  
T *Phymatotrichum omnivorum*. 1162.
- 730-950-1023.  
Quinoline, dihydro-2,2,4-trimethyl-, CU;  $(CH_3)_3C_8H_5N$ .  
T *Sclerotinia fructicola*; NT *Macrosporium sarcinaeforme*. 289.
- 730-950-1023.  
Quinoline, dihydrotrimethyl-, polymerized.  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 730-950-1024.  
Quinoline, 2,3,4,8-tetramethyl-;  $(C_6H_5N)(CH_3)_4$ .  
T *Phymatotrichum omnivorum*. 1162.
- 730-950-1359.  
Quinoline sulfate;  $(C_9H_7N)_2H_2SO_4$ .  
Injected into elm trees for control of *Graphium ulmi*. 821.
- 730-1023.  
Pyridine, trimethyl-, CU;  $(C_5H_5N)(CH_3)_3$ . (γ-Collidine). 934P.
- 730-1177-1291.  
Pyridine, 3-chloromercurei;  $(C_5H_4N) \cdot HgCl$ . (3-Pyridylmercuric chloride).  
T as mildewproofing agent and seed disinfectant. 814.
- 732-1333.  
Piperazine, diiodo-;  $(C_4H_8N_2)_2I_2$ .  
More effective as bactericide than fungicide. 110, 1141P.
733.  
Hexamethylenetetramine;  $C_6H_{12}N_4$ . (Hexamine, urotropine, aminoforn).  
NT mold fungi at 0.5%. 476.
- 733-1021.  
Triazine, methyl-;  $(C_3H_2N_3)CH_3$ . (Monomethyltriazine). 361P.
- 733-1022.  
Triazine, dimethyl-;  $(C_3H_2N_3)(CH_3)_2$ . 361P.
- 733-1176.  
Hexamethylenetetramine and a mercurial salt.  
Disinfectant for corn and like seeds. 1125P.
- 733-1333.  
Hexamethylenetetramine, tetraiodo-. (Tetraiodomethanamine).  
T *Microsporium lanosum* at 1-5,000. 110, 283, 1141P, 1272.
- 740-874.  
Pyrrole, tetraiodo-;  $(C_4H_5N)_4I_4$ . (Pyrrol tetraiodide; iodo; iodopyrrole). 110, 1141P.
- 740-950.  
Carbazole;  $C_{12}H_9N$ . (Dibenzopyrrole; diphenylamine). 153P.
- 740-950-984-1023-1389.  
Indolinium methylsulfate, 2,3-dihydro-2-hepta-decyl-1,1-dimethyl-;  $C_{17}H_{35}C_8H_7N(CH_3)_2SO_4CH_3$ .  
Also strong bactericide. 520P.
- 740-1001.  
Pyrrolidine, butyl-, CU;  $C_4H_8(C_4H_9N)$ .  
Used as spray, T molds and other fungus. 121P.
- 742-951.  
Imidazole, 2-phenyl-;  $(C_6H_5N_2)C_2H_2$ . (2-Phenylglyoxaline).  
HT mold fungi at 0.3% and MT at 0.1%. 476.
- 770-1021-1027-1030.  
Trithiocarbonates, alkene;  $RSC(S)SH$ . 56P.
- 781-952.  
Phenyl sulphide;  $(C_6H_5)_2S$ . (Diphenyl sulfide; benzene sulfide).  
Used as dust to destroy *Puccinia graminis*. 387P, 1178.
- Carbon disulfide—see 1128-1392.
- 781-1045.  
Sulfides, organic. 1389P.
- 781-1045.  
Thio-ethers, (reaction product). 1139P.

- 782-952-1022.  
Benzyl disulfide;  $C_6H_5CH_2SSCH_2C_6H_5$ .  
NT *Sclerotinia sclerotiorum* at 1-1,000. 728.
- 791-951-1142.  
Phenol thio-, copper derivative?  $(C_6H_5S)_2Cu$ ? (Copper sulfophenate).  
MT bunt spore. 1096.
- 791-952-1021-1177.  
*p*-Toluenethiol, phenylmercury derivative;  $C_6H_5HgSC_6H_4CH_3$ . (*p*-Toluenesol, mercury salt). 365P.
- 791-952-1177.  
Benzeneethiol, phenylmercury derivative;  $C_6H_5HgSC_6H_5$ ? (Thiophenol, mercury salt). 363P.
- 791-989.  
Dodecanethiol;  $C_{12}H_{25}SH$ . (Lauryl mercaptan). 593P.
- 791-989-1045.  
Sulfolides, dodecyl-;  $C_{12}H_{25}SR$ . (Lauryl thioethers). 593P.
- 791-1027-1045-1113.  
Arsinic acids, alkyl-, thio derivative;  $AlkAs(SR')SR''$ .  
Used to immunize seed grain. 364P, 382P, 1129P.
- 791-1027-1045-1113-1392.  
Arsinic acids, alkyl-, thio derivative;  $AlkAs(SH)SR'$ .  
Used to immunize seed grain. 364P, 382P, 1129P.
- 821-1333.  
*p*-Dithiane, 1,1,4,4-tetraiodo-;  $(C_4H_8S_2)_4I_4$ . (Diethylenedisulfide-tetraiodide).  
Used in parasitic skin diseases. 110, 248.
- 825-1011-1177-1291.  
Thiophene, 2-chloromercuri-5-ethyl-;  $C_4H_3(C_2H_5S)-HgCl$ .  
Seed disinfectant. 789P, 1178.
- 825-1021-1177-1291.  
Thiophene, 2-chloromercuri-5-methyl-;  $CH_3(C_4H_3S)-HgCl$ . (Thiophene, 5-chloromercuri-2-methyl).  
Seed disinfectant. 789P, 1178.
- 825-1022-1177-1291.  
Thiophene, 2-chloromercuri-4,5-dimethyl-;  $(CH_3)_2-(C_4H_3S)HgCl$ .  
Seed disinfectant. 789P, 1178.
- 825-1177.  
Mercury, di-2-thienyl-;  $(C_4H_3S)_2Hg$ .  
Seed disinfectant. 789P, 1178.
- 825-1177-1291.  
Thiophene, 2-chloromercuri-;  $(C_4H_3S)HgCl$ .  
Used as dust, gives control of seed-borne diseases. 789P, 1178.
- 841-989.  
Dodecane, 1-bromo-;  $CH_3(CH_2)_{10}CH_2Br$ . (Lauryl bromide; dodecyl bromide). 593P.
- 842-1011.  
Ethane, 1,2-dibromo-;  $CH_2BrCH_2Br$ . (Ethylene dibromide; ethylene bromide; glycol dibromide).  
T leaf mold; also used as fumigant. 1304.
- 851-924.  
Naphthalene, 1-chloro-;  $C_{10}H_7Cl$ . ( $\alpha$ -Chloronaphthalene).  
T wood-destroying fungi; NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 60, 289.
- 851-924.  
Naphthalene, 2-chloro-;  $C_{10}H_7Cl$ . ( $\beta$ -Chloronaphthalene). 888P.
- 851-951.  
Benzene, chloro-;  $C_6H_5Cl$ .  
T as wood preservative but too volatile; NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 60, 289.
- 851-951-1021.  
Toluene, chloro-, CU;  $CH_3C_6H_4Cl$ .  
T *Sclerotinia fructicola*; NT *Macrosporium sarcinaeforme*. 289, 717.
- 851-951-1021.  
Toluene,  $\alpha$ -chloro-;  $C_6H_5CH_2Cl$ . (Benzyl chloride).  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 851-951-1045-1113.  
Arsinic acid, chlorophenyl-, CU;  $ClC_6H_4As(R)-(OR):O$ . 1098P.
- 851-952-1021-1113.  
Arsinic acid, chlorophenylbenzyl-, CU;  $ClC_6H_4As(CH_2C_6H_5)(OH):O$ . 1099P.
- 851-952-1270.  
Boric acid, tris(4-chloro-2-biphenyl) ester;  $B(OC_6H_3Cl)_3$ . (Tri-(2-phenyl-4-chlorophenyl) borate).  
Useful in preparation of fungicidal and germicidal compositions. 1113P.
- 851-1001.  
Butene, 1-chloro-;  $C_4H_7Cl$ . (Butyl chloride).  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 851-1001-1030.  
Propene, 3-chloro-2-methyl-;  $CH_2=C(CH_3)CH_2Cl$ . (1-Chloro-2-methyl-2-propene).  
Used as fumigant. 57P.
- 852-924.  
Naphthalene, dichloro-, CU;  $C_{10}H_6Cl_2$ . (Dichloronaphthalene).  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 852-951.  
Benzene,  $\alpha$ -dichloro-;  $C_6H_4Cl_2$ .  
T hyphae of *Sclerotium rolfsii* and several species wood-destroying fungi; NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289, 655, 657, 804.
- 852-951.  
Benzene,  $m$ -dichloro-;  $C_6H_4Cl_2$ .  
T hyphae of *Sclerotium rolfsii* and wood-destroying fungi; NT *Fusarium cubense*, in soil at 1%. 804, 1420A.
- 852-951.  
Benzene,  $p$ -dichloro-;  $C_6H_4Cl_2$ .  
T hyphae of *Sclerotium rolfsii* and downy mildew of tobacco; NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289, 804, 1105.
- 852-1001.  
Butene, 2,3-dichloro-;  $CH_3CHClCHClCH_3$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 852-1011-1030.  
Ethylene, dichloro-, CU;  $C_2H_2Cl_2$ . (Acetylene dichloride). 320.
- 853-951.  
Benzene, 1,2,3-trichloro-;  $C_6H_3Cl_3$ .  
ST wood-destroying fungi. 656.
- 853-951.  
Benzene, 1,2,4-trichloro-;  $C_6H_3Cl_3$ .  
T wood-destroying fungi. 60, 656.
- 853-951.  
Benzene, 1,3,5-trichloro-;  $C_6H_3Cl_3$ .  
NT wood-destroying fungi. 656, 888P.
- 853-951.  
Benzene, trichloro-, CU;  $C_6H_3Cl_3$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 853-1011.  
Ethane, 1,1,2-trichloro-;  $CH_3CICHCl_2$ .  
NT *Macrosporium sarcinaeforme*. 289.
- 853-1011-1030.  
Ethylene, trichloro-;  $CHCl:CCl_2$ . (Ethynyl trichloride). 320, 1510.
- 853-1021.  
Chloroform;  $CHCl_3$ .  
T *Trichoderma lignorum*. 183P, 804.
- 854-924.  
Naphthalene, tetrachloro-, CU;  $C_{10}H_4Cl_4$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289, 890P.
- 854-951.  
Benzene, 1,2,3,4-tetrachloro-;  $C_6H_2Cl_4$ .  
ST wood-destroying fungi. 656.
- 854-951.  
Benzene, 1,2,4,5-tetrachloro-;  $C_6H_2Cl_4$ .  
ST wood-destroying fungi. 656.
- 854-951.  
Benzene, tetrachloro-, CU;  $C_6H_2Cl_4$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 854-1011.  
Ethane, tetrachloro-, CU;  $C_2H_2Cl_4$ . (Acetylene tetrachloride). 320.
- 854-1011-1030.  
Ethylene, tetrachloro-;  $CCl_2:CCl_2$ . (Percichloroethylene).  
NT *Macrosporium sarcinaeforme*. 289, 320.

- 854-1021.  
Carbon tetrachloride;  $\text{CCl}_4$ .  
NT *Fusarium cubense*. 1420A.
- 855-951.  
Benzene, pentachloro-;  $\text{C}_6\text{HCl}_5$ .  
ST wood-destroying fungi. 656.
- 855-1011.  
Ethane, pentachloro-;  $\text{CHCl}_2\text{CCl}_3$ . 320.
- 856-921.  
Naphthalene, hexachloro-, CU;  $\text{C}_{10}\text{H}_2\text{Cl}_6$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 856-951.  
Benzene, hexachloro-;  $\text{C}_6\text{Cl}_6$ .  
NT wood-destroying fungi; NT *Macrosporium sarcinaeforme*. 289, 656.
- 857-951-1021.  
Toluene, heptachloro-, CU;  $\text{C}_7\text{HCl}_7$ . 363P.
- 857-952.  
Biphenyl, chlorinated, CU.  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 801-1001.  
Butane, fluoro-, CU;  $\text{C}_4\text{H}_5\text{F}$ . (Monofluorobutane). 315P.
- 802-952-1011.  
Ethane, 1,2-difluoro-1,1-diphenyl-;  $(\text{C}_6\text{H}_5)_2\text{CFC}_2\text{H}_2\text{F}$ . ( $\alpha,\alpha$ -Diphenyl- $\alpha,\beta$ -difluoroethylfluoride). 813P.
- 862-1001.  
Butane, difluoro-, CU;  $\text{C}_4\text{H}_6\text{F}_2$ . 345P.
- 881-999-1030.  
1-Butene, 3-halo-3-methyl-;  $\text{CH}_3\text{C}(\text{CH}_3)(\text{X})\text{CH}_2\text{CH}_3$ . (Apparently incorrectly named 3-Halo-3-methyl-2-butene). 1512P.
- 890-952-1291.  
Iodobrom chloride, diphenyl-;  $(\text{C}_6\text{H}_5)_2\text{ICl}$ .  
MT growth of mold fungi at 0.2%. 476.
910.  
Anthracene;  $\text{C}_{14}\text{H}_{10}$ .  
Seed disinfectant; NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 183P, 289.
910.  
Phenanthrene;  $\text{C}_{14}\text{H}_{10}$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 183P, 289.
912.  
Fluorene;  $\text{C}_{13}\text{H}_{10}$ . (Diphenylmethane). 183P.
912.  
Acenaphthene;  $\text{C}_{12}\text{H}_8$ . (Naphthyleneethylene).  
T several species wood-destroying fungi; NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 60, 183P, 289.
921.  
Naphthalene;  $\text{C}_{10}\text{H}_8$ .  
T several species wood-destroying fungi; NT *Fusarium cubense*, in soil, at 1%. 60, 1420A.
921.  
Tetralin;  $\text{C}_{10}\text{H}_8$ . (1,2,3,4-Tetrahydronaphthalene).  
ST at nonphytotoxic concentrations; T mold fungi at 0.3%. 476, 901.
921.  
Decalin;  $\text{C}_{10}\text{H}_{18}$ . (Decalin; decahydronaphthalene).  
NT at 3.0%; T at 4.0% but caused injury to foliage. 901A, 901.
- 921-951-1015-1113.  
Arsenic acid, phenyl-, 2-naphthyl ester;  $\text{C}_6\text{H}_5\text{OAs}(\text{C}_6\text{H}_4)_2(\text{R})\text{O}$ . ( $\beta$ -Naphthol ester of phenyl-arsinic acid). 1098P.
- 921-999.  
Naphthalene, amyl-, CU;  $\text{C}_{10}\text{H}_7\text{C}_5\text{H}_{11}$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 921-1000.  
Naphthalene, diamyl-, CU;  $\text{C}_{10}\text{H}_6(\text{C}_5\text{H}_{11})_2$ . 289.
- 924-1000.  
Naphthalene, polyamyl-, CU.  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 921-1021.  
Naphthalene, 2-methyl-,  $\text{C}_{11}\text{H}_8\text{CH}_3$ . ( $\beta$ -Methylnaphthalene).  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 183P, 289.
- 924-1027.  
Naphthalene, alkyl.  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 921-1177-1201.  
Naphthalene, 1-chloromercuri-,  $\text{C}_{10}\text{H}_7\text{HgCl}$ . ( $\alpha$ -Naphthylmercuric chloride).  
NT several species wood-destroying fungi. 655.
951.  
Benzene;  $\text{C}_6\text{H}_6$ . (Benzol; benzole; phenol).  
T hyphae of *Sclerotium rolfsii* and *Peronospora tabacina*, and as wood preservative but too volatile; NT *Fusarium cubense* at 1.25%. 60, 728, 804, 901A, 1106, 1420A.
- 951-1003.  
Benzene, isopropyl-,  $\text{C}_9\text{H}_{10}$ .  
NT *Macrosporium sarcinaeforme*. 289.
- 951-1012.  
Benzene, diethyl-, CU;  $\text{C}_8\text{H}_{10}(\text{C}_2\text{H}_5)_2$ .  
NT *Macrosporium sarcinaeforme*. 289.
- 951-1021.  
Toluene;  $\text{C}_6\text{H}_5\text{CH}_3$ . (Methyl benzene; phenyl methane).  
T hyphae of *Sclerotium rolfsii* and as wood preservative but too volatile; NT at 1% to *Fusarium cubense* in soil. 60, 801, 1420A.
- 951-1021-1356.  
Tolyl phosphates, CU;  $(\text{CH}_3\text{C}_6\text{H}_4)_2\text{PO}_4$ . (Tricresyl phosphate).  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 951-1022.  
Xylene, CU;  $\text{C}_8\text{H}_{10}(\text{CH}_3)_2$ . (Dimethylbenzene).  
T hyphae of *Sclerotium rolfsii*; NT at 2.25% *Fusarium cubense* in soil. 804, 1420A.
- 951-1022-1177-1291.  
Mercury chloride, *p*-xylyl-,  $(\text{CH}_3)_2\text{C}_6\text{H}_4\text{HgCl}$ .  
T several species wood-destroying fungi. 655.
- 951-1113-1325.  
 $\text{C}_6\text{H}_5\text{AsO}$ . (Name and constitution unspecified).  
Used as mordants for seeds; T several species wood-destroying fungi. 378P, 655.
- 951-1120.  
Boric acid, phenyl-,  $\text{C}_6\text{H}_5\text{B}(\text{OH})_2$ .  
HT mold fungi at 0.06-0.1%. 476.
- 951-1120-1218.  
Boric acid, phenyl-, sodium salt;  $\text{C}_6\text{H}_5\text{B}(\text{OH})\text{ONa}$ ?  
HT mold fungi at 0.06-0.1%. 476.
- 951-1177-1270.  
Boric acid, phenylmercury salt;  $(\text{C}_6\text{H}_5\text{HgO})_3\text{B}$ ? (Phenylmercuric borate).  
T various mycoses. 283.
- 951-1177-1274.  
Mercury bromate, phenyl-,  $\text{C}_6\text{H}_5\text{HgBrO}_3$ . 19P.
- 951-1177-1288.  
Mercury chlorate, phenyl-,  $\text{C}_6\text{H}_5\text{HgClO}_3$ . 19P.
- 951-1177-1289.  
Mercury perchlorate, phenyl-,  $\text{C}_6\text{H}_5\text{HgClO}_4$ . 19P.
- 951-1177-1291.  
Mercury chloride, phenyl-,  $\text{C}_6\text{H}_5\text{HgCl}$ .  
T several species wood-destroying fungi, *Fomes anisotus*, and *Ceratostomella pilifera*. 68, 655.
- 951-1177-1330.  
Mercury iodate, phenyl-,  $\text{C}_6\text{H}_5\text{HgIO}_3$ . 19P.
- 951-1177-1333.  
Mercury iodide, phenyl-,  $\text{C}_6\text{H}_5\text{HgI}$ . (Mercury compound, phenyl-iodide).  
Effective in control of seed-borne diseases. 110, 313P, 941, 1303.
- 951-1177-1341.  
Mercury nitrate, phenyl-,  $\text{C}_6\text{H}_5\text{HgNO}_3$ . (Phenylmercuric nitrate).  
T various mycoses, several species wood-destroying fungi, *Fomes anisotus*, and *Ceratostomella pilifera*. 68, 283, 655.
952.  
Biphenyl;  $\text{C}_{12}\text{H}_{10}$ . (Diphenyl; phenylbenzene).  
T several species wood-destroying fungi. 60, 183P.
- 952-1021.  
Methane, diphenyl-,  $\text{C}_6\text{H}_5\text{CH}_2\text{C}_6\text{H}_5$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.



- 952-1270.  
Boric acid, tri-2-biphenyl ester;  $B(OC_6H_4C_6H_5)_3$ . (Tri-(2-phenyl-phenyl) borate). 1113P.
- 953-1356.  
Phosphoric acid, phenyl di-2-biphenyl ester;  $(C_6H_5-C_6H_4O)_2PO(C_6H_5O)?$  (Di(*o*-xenyl)-monophenyl phosphate).  
NT *Macrosporium sarcinaeforme*. 289.
957.  
Cyclohexene;  $C_6H_{10}$ . (1,2,3,4-Tetrahydrobenzene).  
Grain disinfectant; NT *Macrosporium sarcinaeforme*. 281P, 289.
- 957-1021.  
Cyclohexene, methyl-, CU;  $C_6H_{12}$ .  
Grain disinfectant. 281P.
961.  
Cyclohexane;  $C_6H_{12}$ . (Hexahydrobenzene; hexamethylene).  
Fungicide at 7.0% but caused distinct injury. 901A.
- 961-1021.  
Cyclohexane, methyl-,  $(C_6H_{11})CH_3$ . (Hexahydrotoluene; cyclohexylmethane).  
NT at 6.0%; T at 7.0% but caused distinct injury. 901A.
968.  
Dicyclopentadiene;  $(C_5H_8)_2$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 989-1216-1311-1389.  
Silver nitrate-lauryl sulfate complex, CU.  
T late blight of celery and tulip fire; MT potato blight. 1056.
- 1001-1177-1392.  
Mercury sulfide, butyl-,  $[C_4H_9Hg]_2S$ . (Butyl mercuric sulfide).  
Seed disinfectant. 788P.
- 1001-1177-1405.  
Mercury thiocyanate, butyl-,  $C_4H_9HgSCN$ . (Thiocyanic acid, butylmercuric ester).  
T spores of stinking smut. 790P, 1178.
- 1003-1177-1276.  
Mercury bromide, propyl-,  $C_3H_7HgBr$ . (Propyl mercuric bromide). 370P.
- 1003-1177-1333.  
Mercury iodide, isopropyl-,  $C_3H_7HgI$ . (Mercury compound, isopropyl-iodide).  
T spores of barley smut. 110, 802.
- 1003-1177-1389.  
Mercury sulfate, propyl-,  $[C_3H_7Hg]_2SO_4$ . (Propyl mercuric sulfate).  
Seed disinfectant. 788P.
- 1004-1124-1356.  
Phosphoric acid, diithio-, diisopropyl ester, cadmium salt?  $[(C_3H_7)_2PO_2S_2]_2Cd$ . (Phosphoric acid, diisopropylidithio-, cadmium salt).  
Seed disinfectant. 959P, 1432.
- 1011-1027-1040-1177.  
Acetylene, bis(alkylmercuri);  $RHgC\equiv CH_2R$ . 1251P.
- 1011-1030-1177-1333.  
Mercury iodide, vinyl-,  $CH_2\cdot CHHgI$ . 110, 1097P.
- 1011-1177-1254.  
Mercury arsenate, ethyl-,  $(C_2H_5Hg)_2AsO_4$ . (Ethylmercuriarsenate). 302P.
- 1011-1177-1291.  
Mercury chloride, ethyl-,  $C_2H_5HgCl$ .  
T mildew of roses, bacteriosis of peaches and plums, *Rhizoctonia solani*, black rot of grapes, and potato blight. 370P, 787P, 788P.
- 1011-1177-1303.  
Mercury cyanide, ethyl-,  $C_2H_5HgCN$ . (Ethylmercuricyanide).  
T several species of wood-destroying fungi. 302P, 655.
- 1011-1177-1333.  
Mercury iodide, ethyl-,  $C_2H_5HgI$ .  
T damping-off fungi. 110, 822.
- 1011-1177-1358.  
Mercury phosphate, ethyl-,  $(C_2H_5Hg)_2PO_4$ . (Ethylmercuriphosphate).  
T many seed-borne diseases and several wood-destroying fungi. 302P, 655.
- 1011-1177-1389.  
Mercury sulfate, ethyl-,  $(C_2H_5Hg)_2SO_4$ .  
T mildew of roses, bacteriosis of peaches and plums, *Rhizoctonia solani*, black rot of grapes, late potato blight, and wood-destroying fungi. 655, 787P.
- 1012-1177-1271.  
Mercury tetraborate, ethyl-,  $(C_2H_5Hg)_2B_4O_7$ .  
T several species wood-destroying fungi. 655.
- 1012-1286.  
Carbonic acid, diethyl ester;  $(C_2H_5)_2CO_3$ .  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- 1021-1113-1392.  
Sulfide, methylarsine;  $CH_3AsS$ .  
T spores of barley blight. 364P, 382P, 1129P, 1178.
- 1021-1177-1291.  
Mercury chloride, methyl-,  $CH_3HgCl$ .  
Seed disinfectant. 788P.
- 1021-1177-1333.  
Mercury iodide, methyl-,  $CH_3HgI$ . 515.
- Carbon dioxide- see 1128-1350.
- 1022-1177-1325-1341.  
Mercury nitrate, methyl-, compound with methyl mercury hydroxide;  $CH_3HgNO_3\cdot CH_3HgOH?$  (Basic methyl mercury nitrate). 803P.
- 1022-1228-1333.  
Thallium iodide, dimethyl-,  $(CH_3)_2TlI$ .  
ST mold fungi at 0.05%. 476.
- 1027-1113-1392.  
Arsinic acid, alkyl-, thio derivative;  $AlkAs\cdot S$ .  
Immunizes seed grain. 364P, 382P, 1129P.
- 1045-1177-1450.  
Mercury compound of the type  $RHgX$ .  
T mildew of roses, bacteriosis of peaches and plums, *Rhizoctonia solani*, black rot of grapes, and late potato blight; seed disinfectant. 786P, 787P, 788P.
- 1109-1196-1389.  
Aluminum potassium sulfate;  $KAl(SO_4)_2$ . (Potassium alum).  
T *Alternaria solani*; MT mold fungi at 0.5%; NT *Sclerotinia fructicola*. 476, 916A.
- 1109-1218-1312.  
Cryolite;  $AlF_3\cdot 3NaF$ . (Sodium fluoaluminat).  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1109-1218-1313.  
Aluminum sodium fluosilicate;  $AlNa(SiF_6)_2$ . (Aluminum sodium silicofluoride).  
T *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1109-1312.  
Aluminum fluoride;  $AlF_3$ .  
NT mold fungi at 0.2%. 476.
- 1109-1313.  
Aluminum fluosilicate;  $Al_2(SiF_6)_3$ .  
T *Alternaria solani*; ST *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 717, 916A.
- 1109-1325.  
Aluminum hydroxide (paste);  $Al(OH)_3$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 510, 916A.
- 1109-1350.  
Aluminum oxide;  $Al_2O_3$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1109-1356.  
Aluminum phosphate;  $AlPO_4$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1109-1389.  
Aluminum sulfate;  $Al_2(SO_4)_3\cdot 18H_2O$ .  
T *Fomes annosus* and T mold fungi at 0.36%; ST *Phytophthora infestans*; NT *Sclerotinia fructicola* and *Alternaria solani*. 59, 476, 916A, 1055.
- 1109-1450.  
Aluminum salts, CU.  
T wood-destroying fungi but slowly lowers mechanical strength. 60.
1108.  
Ammonia;  $NH_3$ .  
The introduction of volume concentrations of 5-10 parts per 10,000 lessened decay in wounded oranges inoculated with *Penicillium digitatum*. 804.
- 1108-1142-1288.  
Tetramminecupric carbonite;  $Cu(NH_3)_4CO_3$ . (Cupric ammonia carbonate).  
T leaf mold. 1304.

- 1108-1291-1325.  
Hydroxylamine hydrochloride;  $\text{HCl} \cdot \text{NH}_2\text{OH}$ .  
ST *Macrosporium sarcinaeforme*. 717.
- 1109-1130-1389.  
Ceric ammonium sulphate;  $(\text{NH}_4)_2\text{SO}_4 \cdot \text{Ce}(\text{SO}_4)_2$ .  
T late tomato blight; NT *Septoria* tomato blight. 916A.
- 1109-1142-1244-1331.  
Zinc ammoniacal copper silicate.  
T walnut blight but not as effective as Bordeaux mixture. 961.
- 1109-1162-1389.  
Ferrous ammonium sulphate;  $(\text{NH}_4)_2\text{Fe}(\text{SO}_4)_2 \cdot 6\text{H}_2\text{O}$ .  
T *Fomes annosus*. 59.
- 1109-1162-1389.  
Ferric ammonium sulphate;  $\text{NH}_4\text{Fe}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$ .  
T *Fomes annosus*. 59.
- 1109-1172-1254.  
Magnesium ammonium arsenate;  $\text{NH}_4\text{MgAsO}_4 \cdot 6\text{H}_2\text{O}$ .  
T several species wood-destroying fungi. 60.
- 1109-1172-1356.  
Magnesium ammonium phosphate;  $\text{Mg}(\text{NH}_4)\text{PO}_4$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1109-1176-1291.  
Ammonobasic mercuric chloride;  $\text{HgNH}_2\text{Cl}$ . (Mercury, ammoniated; mercury chloride ammoniated; white precipitate).  
T nearly all mycoses. 283.
- 1109-1182-1254.  
Nickel arsenate, ammoniated;  $(\text{NH}_4)_3\text{AsO}_4 \cdot \text{Ni}_3(\text{AsO}_4)_2$ ?  
T several species wood-destroying fungi. 60.
- 1109-1182-1389.  
Nickel ammonium sulphate;  $(\text{NH}_4)_2\text{SO}_4 \cdot \text{NiSO}_4 \cdot 6\text{H}_2\text{O}$ .  
T *Fomes annosus* and wood-destroying fungi. 59, 60.
- 1109-1218-1350.  
Sodium ammonium phosphate;  $\text{NaNH}_2\text{HPO}_4 \cdot 4\text{H}_2\text{O}$ . (Microcosmic salt).  
T *Fomes annosus*. 59.
- 1109-1244-1312.  
Zinc ammonium fluoride;  $2\text{NH}_4\text{F} \cdot \text{ZnF}_2$ ?  
HT mold fungi at 0.1%. 476.
- 1109-1255.  
Ammonium arsenious trioxide;  $(\text{NH}_4)_3\text{AsO}_3$ ?  
T several species wood-destroying fungi. 655.
- 1109-1286.  
Ammonium hydrogen carbonate;  $\text{NH}_4\text{HCO}_3$ . (Ammonium bicarbonate).  
Found to supply a concentration of ammonia sufficient to lessen decay due to green mold. 804.
- 1109-1286.  
Ammonium carbonate;  $(\text{NH}_4)_2\text{CO}_3 \cdot \text{H}_2\text{O}$ .  
Injected into chestnut trees for blight control; found to supply a concentration of ammonia sufficient to lessen decay due to green mold; NT *Fusarium cubense* at 1%. 175, 804, 1213B, 1420A.
- 1109-1289.  
Ammonium perchlorate;  $\text{NH}_4\text{ClO}_4$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1109-1291.  
Ammonium chloride;  $\text{NH}_4\text{Cl}$ .  
Injected into chestnut trees for blight control. 175, 1213B.
- 1109-1312.  
Ammonium fluoride;  $\text{NH}_4\text{F}$ .  
HT mold fungi at 0.04%. 476.
- 1109-1313.  
Ammonium fluosilicate;  $(\text{NH}_4)_2\text{SiF}_6$ . (Cryptohalite).  
T *Alternaria solani*; ST *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 717, 916A.
- 1109-1325.  
Ammonium hydroxide;  $\text{NH}_4\text{OH}$ .  
Injected into chestnut trees for blight control; NT *Fusarium cubense*. 175, 1213B, 1420A.
- 1109-1340.  
Ammonium molybdate;  $(\text{NH}_4)_2\text{MoO}_4$ .  
T *Fomes annosus*. 59.
- 1109-1389.  
Ammonium sulphate;  $(\text{NH}_4)_2\text{SO}_4$ .  
Injected into chestnut trees for blight control; T root-rot and *Sclerotinia sclerotiorum*; NT *Fomes annosus*. 59, 175, 728, 1197, 1213B.
- 1109-1391.  
Ammonium sulfamate;  $\text{H}_2\text{NSO}_3\text{NH}_4$ .  
NT *Sclerotinia sclerotiorum* at 1-1,000. 728.
- 1109-1405.  
Ammonium thiocyanate;  $\text{NH}_4\text{SCN}$ .  
NT *Sclerotinia fructicola*, *Alternaria solani*, and NT *Sclerotinia sclerotiorum* at 1-1,000. 728, 916A.
- 1109-1414.  
Ammonium thiosulphate;  $(\text{NH}_4)_2\text{S}_2\text{O}_3$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1109-1430.  
Ammonium metavanadate;  $\text{NH}_4\text{VO}_3$ .  
T *Sclerotinia fructicola* and *Alternaria solani*. 916A.
1112.  
Arsine.  $\text{AsH}_3$ . 1041.
- 1112-1350.  
Arsenic trioxide;  $\text{As}_2\text{O}_3$ .  
T wood-destroying fungi; NT *Sclerotinia fructicola* and *Alternaria solani*. 60, 916A.
- 1112-1392.  
Arsenic disulfide;  $\text{As}_2\text{S}_2$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1114-1270.  
Barium borate;  $\text{Ba}(\text{BO}_2)_2$ ? (With or without copper borate). 1115P.
- 1114-1286.  
Barium carbonate;  $\text{BaCO}_3$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1114-1291.  
Barium chloride;  $\text{BaCl}_2$ .  
Injected into chestnut trees for blight control; NT *Alternaria solani*, *Sclerotinia fructicola*, and *Fomes annosus*. 59, 175, 916A, 1213B.
- 1114-1312.  
Barium fluoride;  $\text{BaF}_2$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1114-1313.  
Barium fluosilicate;  $\text{BaSiF}_6$ .  
T *Alternaria solani*; ST *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 717, 916A.
- 1114-1325.  
Barium hydroxide;  $\text{Ba}(\text{OH})_2 \cdot 8\text{H}_2\text{O}$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1114-1341.  
Barium nitrate;  $\text{Ba}(\text{NO}_3)_2$ .  
MT mold fungi at 0.5%; NT *Sclerotinia fructicola* and *Alternaria solani*. 476, 916A.
- 1114-1351.  
Barium peroxide;  $\text{BaO}_2$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1114-1389.  
Barium sulphate;  $\text{BaSO}_4$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1114-1392.  
Barium sulphide;  $\text{BaS}$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1114-1392.  
Barium polysulphide;  $\text{BaS}_x$ .  
Fungicidal at ca 0.1% polysulphide sulphur. 581.
- 1118-1341.  
Bismuth oxynitrate;  $\text{BiONO}_2 \cdot \text{H}_2\text{O}$ . (Bismuth basic nitrate).  
NT late and *Septoria* tomato blights. 916A.
- 1118-1356.  
Bismuth phosphate;  $\text{Bi}_2(\text{PO}_4)_3$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1124-1291.  
Cadmium chloride;  $\text{CdCl}_2$ .  
T *Sclerotinia fructicola*, *Alternaria solani*, and several species wood-destroying fungi; MT *Erwinia amylovora*. 60, 779, 916A.
- 1124-1350.  
Cadmium oxide;  $\text{CdO}$ .  
T *Phytophthora infestans*. 1429.

- 1124-1389.  
Cadmium sulphate;  $\text{CdSO}_4$ .  
T *Sclerotinia fructicola*, *Alternaria solani*, and *Pomes annosus*. 59, 916A.
- 1124-1450.  
Cadmium salts, CU.  
T wood-destroying fungi. 60.
- 1126-1142-1291-1350.  
Copper oxide-calcium chloride complex;  $\text{CaCl}_2 \cdot 3\text{CuO} \cdot n\text{H}_2\text{O}$ . 242P.
- 1126-1254.  
Calcium arsenate, CU.  
When containing 0.0505%  $\text{As}_2\text{O}_3$  proved fungicidal; T apple scab. 159, 580.
- 1126-1270.  
Calcium borate;  $\text{Ca}(\text{BO}_2)_2$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1126-1284.  
Calcium carbide;  $\text{CaC}_2$ .  
NT *Fusarium cubense*. 1420A.
- 1126-1294.  
Calcium hypochlorite;  $\text{Ca}(\text{ClO})_2 \cdot \text{CaCl}_2$ .  
ST *Fusarium cubense*. 1420A.
- 1126-1305.  
Calcium cyanamide;  $\text{CaCN}_2$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1126-1312.  
Calcium fluoride;  $\text{CaF}_2$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1126-1313.  
Calcium fluosilicate;  $\text{CaSiF}_6$ .  
T *Alternaria solani*; ST *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 717, 916A.
- 1126-1325.  
Calcium hydroxide;  $\text{Ca}(\text{OH})_2$ . (Hydrated lime).  
T downy mildew of hop. 1051.
- 1126-1356.  
Dicalcium hydrogen phosphate;  $\text{CaHPO}_4$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1126-1365.  
Calcium hypophosphite;  $\text{Ca}(\text{H}_2\text{PO}_2)_2$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1126-1389.  
Calcium sulfate;  $\text{CaSO}_4$ . (Gypsum).  
When soaked in  $\text{CH}_2\text{O}$ , it successfully combats parasites harmful to vines; NT *Phymatotrichum* root-rot. 184P, 1387.
- 1126-1392.  
Calcium hydrogen sulphide;  $\text{Ca}(\text{SH})_2$ .  
Non-fungicidal. 903.
- 1126-1392.  
Calcium sulphide;  $\text{CaS}$ .  
T apple diseases. 159, 903.
- 1126-1392.  
Lime-sulphur solution;  $\text{CaSx}$ .  
T many fungi. 991, 1060.
- 1126-1393.  
Calcium hydrogen sulfite;  $\text{Ca}(\text{HSO}_3)_2$ . (Calcium bisulphite).  
Non-fungicidal. 903.
- 1126-1414.  
Calcium thiosulphate;  $\text{CaS}_2\text{O}_3 \cdot 6\text{H}_2\text{O}$ .  
Not highly fungicidal. 903.
- 1128-1350.  
Carbon dioxide.  
T *Botrytis cinerea* and *Rhizopus nigricans*. 804.
- 1128-1392.  
Carbon disulfide.  
NT *Fusarium cubense*. 1058, 1420A.
- 1130-1350.  
Cerous oxide;  $\text{Ce}_2\text{O}_3$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1130-1389.  
Cerous sulphate;  $\text{Ce}_2(\text{SO}_4)_3 \cdot 8\text{H}_2\text{O}$ .  
T *Alternaria solani*; NT *Sclerotinia fructicola*. 916A.
- 1130-1389.  
Ceric sulphate;  $\text{Ce}(\text{SO}_4)_2 \cdot 4\text{H}_2\text{O}$ .  
T late and *Septoria* tomato blights. 916A.
- 1136-1196-1389.  
Potassium chromium sulfate;  $\text{KCr}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$ . (Chrome alum).  
T *Fomes annosus*. 59.
- 1136-1291.  
Chromium chloride;  $\text{CrCl}_3$ .  
T *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1136-1291-1350.  
Chromyl chloride;  $\text{CrO}_2\text{Cl}_2$ .  
Used with nitrogen dioxide, hydrogen peroxide, halogens, etc. 855P.
- 1136-1312.  
Chromium fluoride;  $\text{CrF}_3$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1136-1321-1350.  
Chromyl halide. Seed treatment. 856P.
- 1136-1350.  
Chromium oxide;  $\text{CrO}$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1136-1350.  
Chromic sesquioxide;  $\text{Cr}_2\text{O}_3$ .  
NT *Phytophthora infestans*. 1429.
- 1138-1218-1345.  
Sodium cobaltinitrite;  $\text{Na}_3\text{Co}(\text{NO}_2)_6$ .  
T *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1138-1254.  
Cobalt arsenate;  $\text{Co}_2(\text{AsO}_4)_2 \cdot 8\text{H}_2\text{O}$ .  
T *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1138-1291.  
Cobalt chloride;  $\text{CoCl}_2$ .  
T *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1138-1311.  
Cobalt nitrate;  $\text{Co}(\text{NO}_3)_2$ .  
T *Fomes annosus*. 59.
- 1138-1350.  
Cobalt oxide;  $\text{CoO}$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1138-1389.  
Cobalt sulphate;  $\text{CoSO}_4$ .  
T *Sclerotinia fructicola* and *Alternaria Solani*. 916A.
- 1138-1450.  
Cobalt salts, CU.  
T wood-destroying fungi. 60.
- 1142-1177-1405.  
Copper salt of a complex mercury thiocyanic acid.  
Seed disinfectant. 1066P.
- 1142-1254-1325.  
Copper arsenate, basic;  $\text{Cu}(\text{CuOHAsO}_4)?$ .  
NT spores of *Macrosporium sarcinaeforme* and *Venturia inaequalis* or *V. pirina*. 905.
- 1142-1254.  
Cupric arsenate;  $\text{Cu}_2(\text{AsO}_4)_2$ .  
T bunt spores. 1096.
- 1142-1260.  
Cupric arsenite;  $\text{CuHAsO}_3?$ .  
T bunt spores. 1096.
- 1142-1270.  
Copper borate;  $\text{Cu}(\text{BO}_2)_2$ .  
T bunt spores. 482P, 1096, 1115P.
- 1142-1276.  
Cupric bromide;  $\text{CuBr}_2$ .  
T bunt spores. 1096.
- 1142-1286.  
Cupric carbonate;  $\text{CuCO}_3$ .  
T bunt spores, *Sclerotinia fructicola*, *Alternaria solani*, and many seed-borne diseases. 320A, 916A, 1066.
- 1142-1288.  
Copper chlorate;  $\text{Cu}(\text{ClO}_3)_2$ .  
NT bunt spores. 1096.
- 1142-1291.  
Copper chloride, CU.  
Injected into chestnut trees for blight control; T bunt spores and *Erwinia amylovora*. 175, 779, 1096, 1213R.
- 1142-1291-1350.  
Copper oxychloride;  $\text{CuCl}_2 \cdot 2\text{CuO} \cdot 4\text{H}_2\text{O}$ .  
T several species fungi. 242P, 483P, 655, 658P, 961, 1096.
- 1142-1296.  
Copper chromate;  $\text{CuCrO}_4$ .  
MT bunt spores. 1096.

- 1142-1303.  
Cuprous cyanide;  $\text{CuCN}$ . 271AP.
- 1142-1303.  
Copper cyanide;  $\text{Cu}$ .  
MT bunt spores; NT *Fusarium cubense* at 1% in soil. 1096, 1420A.
- 1142-1309.  
Cupric ferricyanide;  $\text{Cu}_2\text{Fe}(\text{CN})_{10}\cdot 7\text{H}_2\text{O}$ .  
NT spores of *Marasporium sarciniforme* and *Venturia inaequalis* or *V. pirina*. 905.
- 1142-1312.  
Cupric fluoride;  $\text{CuF}_2$ .  
NT *Fusarium cubense*. 1420A.
- 1142-1312.  
Copper hydrogen fluoride;  $\text{CuH}_2\text{F}_2$ ? (Copper acid fluoride).  
T several species wood-destroying fungi. 655.
- 1142-1312-1325.  
Copper fluoride, basic;  $\text{Cu}(\text{OH})\text{F}$ ?  
T spores of *Venturia inaequalis*. 905.
- 1142-1313.  
Cupric fluosilicate;  $\text{CuSiF}_6$ .  
T bunt spores. 1096.
- 1142-1325.  
Copper hydroxide;  $\text{Cu}(\text{OH})_2$ .  
T apple scab and blotch. 175, 715, 1213B.
- 1142-1333.  
Cuprous iodide;  $\text{CuI}$ .  
NT as fungicide. 905.
- 1142-1333.  
Cupric iodide;  $\text{CuI}_2$ .  
T bunt spores. 1096.
- 1142-1341.  
Cupric nitrate;  $\text{Cu}(\text{NO}_3)_2$ .  
T bunt spores. 1096.
- 1142-1350.  
Cuprous oxide;  $\text{Cu}_2\text{O}$ .  
T many fungi; common seed treatment.
- 1142-1350.  
Cupric oxide;  $\text{CuO}$ .  
T *Phytophthora infestans*; ST walnut blight. 961, 1429.
- 1142-1350-1359.  
Basic copper sulfates. (Bordeaux Mixture).  
T many fungi.
- 1142-1356.  
Copper phosphate;  $\text{Cu}_3(\text{PO}_4)_2$ .  
MT bunt spores; NT downy mildew of onions. 1096, 1506.
- 1142-1362.  
Copper phosphide;  $\text{Cu}_3\text{P}$ ?  
MT bunt spores. 1096.
- 1142-1384.  
Copper silicate;  $\text{CuSiO}_3$ .  
MT bunt spores. 1096.
- 1142-1389.  
Copper sulfate;  $\text{CuSO}_4\cdot 5\text{H}_2\text{O}$ . (Bluestone; blue vitriol).  
T most fungi, commonly used. 60, 175, 283, 329A, 728, 779, 907F, 1000, 1096, 1213B.
- 1142-1392.  
Copper sulfides,  $\text{Cu}$ .  
MT bunt spores. 17P, 1096.
- 1142-1405.  
Copper thiocyanate,  $\text{Cu}$ .  
T bunt spores. 905, 1096.
- For other copper salts see:  
1108-1142-1286.  
1109-1142-1244-1334.
- 1150-1450.  
Gold salts.  
T wood-destroying fungi. 60.
- 1162-1216-1341-1389.  
Silver nitrate ferrous sulfate complex. 1056.
- 1162-1260.  
Ferric arsenite,  $\text{Cu}$ .  
T *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1162-1286.  
Ferrous carbonate;  $\text{FeCO}_3\cdot \text{H}_2\text{O}$ . (Iron carbonate).  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1162-1291.  
Ferric chloride;  $\text{FeCl}_3$ .  
T *Achorion schenckii* and other mycoses but not commonly used at present. 283.
- 1162-1312.  
Ferric fluoride;  $\text{FeF}_3$ . (Iron fluoride).  
T *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1162-1359.  
Ferric phosphate;  $\text{FePO}_4$ . (Iron phosphate).  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1162-1355.  
Ferric hypophosphate;  $\text{Fe}(\text{H}_2\text{PO}_3)_2$ .  
T *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1162-1359.  
Ferrous sulphate;  $\text{FeSO}_4$ .  
T *Alternaria solani*; MT *Erwinia amylovora*; NT *Sclerotinia fructicola*. 779, 916A.
- 1162-1389.  
Ferric sulfate;  $\text{Fe}_2(\text{SO}_4)_3$ .  
T *Sclerotinia fructicola*, *Alternaria solani*, and *Fomes annosus*; MT *Phytophthora infestans*; MT *Sclerotinia rolfsii*. 59, 320A, 916A, 1055.
- 1162-1392.  
Ferrous sulfide;  $\text{FeS}$ . (Iron sulphide).  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1162-1450.  
Iron salts,  $\text{Cu}$ .  
T wood-destroying fungi but slowly lowers mechanical strength. 60.
- 1164-1291.  
Lanthanum chloride;  $\text{LaCl}_3$ .  
T *Alternaria solani*; NT *Sclerotinia fructicola*. 916A.
- 1164-1341.  
Lanthanum nitrate;  $\text{La}(\text{NO}_3)_3$ .  
MT mold fungi at 0.09%. 476.
- 1166-1254.  
Lead hydrogen arsenate;  $\text{PbHAsO}_4$ . (Acid lead arsenate; lead arsenate).  
T apple scab. 159, 589.
- 1166-1270.  
Lead borate;  $\text{Pb}(\text{BO}_2)_2\cdot \text{H}_2\text{O}$ .  
T *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1166-1286.  
Lead carbonate;  $\text{PbCO}_3$ .  
T *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1166-1296.  
Lead chromate;  $\text{PbCrO}_4$ .  
T *Sclerotinia fructicola*; NT *Alternaria solani*. 916A.
- 1166-1313.  
Lead fluosilicate;  $\text{PbSiF}_6\cdot 2\text{H}_2\text{O}$ .  
T *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1166-1333.  
Lead iodide;  $\text{PbI}_2$ .  
T *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1166-1341.  
Lead nitrate;  $\text{Pb}(\text{NO}_3)_2$ .  
T *Fomes annosus*. 59.
- 1166-1350.  
Lead oxide, mono;  $\text{PbO}$ . (Litharge).  
T *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1166-1350.  
Lead oxide, red;  $\text{Pb}_2\text{O}_3$ .  
T *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1166-1351.  
Lead dioxide;  $\text{PbO}_2$ . (Lead peroxide).  
T *Alternaria solani*; NT *Sclerotinia fructicola*. 916A.
- 1166-1410.  
Lead hydrogen thioarsenate;  $\text{PbHAS}_4$ ?  
When containing 0.05%  $\text{As}_2\text{O}_3$  proved fungicidal. 530.
- 1168-1258.  
Lithium carbonate;  $\text{Li}_2\text{CO}_3$ .  
T *Sclerotinia fructicola*; NT *Alternaria solani*; injected into chestnut trees for blight control. 175, 916A, 1213B.
- 1168-1291.  
Lithium chloride;  $\text{LiCl}$ .  
Injected into chestnut trees for blight control. 175, 1213B.
- 1168-1325.  
Lithium hydroxide;  $\text{LiOH}$ .  
Injected into chestnut trees for blight control. 175, 1213B.

- 1168-1341.  
Lithium nitrate;  $\text{LiNO}_3$ .  
Injected into chestnut trees for blight control. 175, 1213B.
- 1168-1389.  
Lithium sulphate;  $\text{Li}_2\text{SO}_4$ .  
Injected into chestnut trees for blight control. 175, 1213B.
- 1172-1250.  
Magnesium aluminate;  $\text{MgAl}_2\text{O}_4$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1172-1254.  
Magnesium arsenate;  $\text{MgHAsO}_4$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1172-1270.  
Magnesium borate;  $\text{MgB}_2\text{O}_7$ ? (Antifungin).  
T *Trichophyton fungus*. 283.
- 1172-1286.  
Magnesium carbonate;  $\text{MgCO}_3$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1172-1313.  
Magnesium fluosilicate;  $\text{MgSiF}_6$ . (Magnesium silico-fluoride).  
HT mold fungi at 0.025%. 476.
- 1172-1325.  
Magnesium hydroxide;  $\text{Mg}(\text{OH})_2$ .  
T *Phytophthora infestans*. 1429.
- 1172-1350.  
Magnesium oxide;  $\text{MgO}$ .  
T *Phytophthora infestans*; NT *Sclerotinia fructicola* and *Alternaria solani*. 916A, 1429.
- 1172-1384.  
Magnesium silicate;  $\text{MgSiO}_3$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*; seed disinfectant. 754P, 916A.
- 1172-1389.  
Magnesium sulphate;  $\text{MgSO}_4$ .  
T *Phytophthora infestans*; ST *Fomes annosus*. 59, 1055.
- 1174-1216-1341-1389.  
Silver nitrate-manganous sulphate complex.  
T tulip "fire"; NT late blight of potatoes. 627.
- 1174-1270.  
Manganese tetraborate;  $\text{MnB}_4\text{O}_7 \cdot 8\text{H}_2\text{O}$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1174-1286.  
Manganese carbonate;  $\text{MnCO}_3$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1174-1291.  
Manganese chloride;  $\text{MnCl}_2$ .  
ST *Fomes annosus*. 59.
- 1174-1350.  
Manganese dioxide;  $\text{MnO}_2$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1174-1389.  
Manganese sulfate;  $\text{MnSO}_4 \cdot 4\text{H}_2\text{O}$ .  
MT *Phytophthora infestans*. 1055.
- 1176-1196-1333.  
Mercuric potassium iodide;  $2\text{HgI}_2 \cdot 2\text{KI} \cdot 3\text{H}_2\text{O}$ .  
Seed disinfectant. 1249P.
- 1176-1196-1350.  
Mercury potassium oxide, CU.  
Seed disinfectant. 1249P.
- 1176-1291.  
Mercurous chloride;  $\text{Hg}_2\text{Cl}_2$ . (Calomel).  
Used in various mycoses, fungicidal effect questionable. 283.
- 1176-1291.  
Mercuric chloride;  $\text{HgCl}_2$ . (Corrosive sublimate).  
T many species fungi. 60, 175, 283, 1060, 1213B, 1354.
- 1176-1303.  
Mercuric cyanide;  $\text{Hg}(\text{CN})_2$ .  
T *Sclerotinia fructicola*, *Alternaria solani*, and *Erwinia amylovora*. 779, 916A.
- 1176-1333.  
Mercuric iodide, red;  $\text{HgI}_2$ . (Mercury biniodide).  
T *Sclerotinia fructicola*, *Alternaria solani*, and some mycoses. 283, 916A.
- 1176-1350.  
Mercurous oxide;  $\text{Hg}_2\text{O}$ .  
T *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1176-1350.  
Mercuric oxide;  $\text{HgO}$ .  
T *Sclerotinia fructicola*, *Alternaria solani*, and *Erwinia amylovora*. 779, 916A.
- 1176-1390.  
Mercury oxide, CU.  
T *Phytophthora infestans*. 178P, 786P, 1429, 1432.
- 1176-1405.  
Mercurous thiocyanate;  $\text{HgSCN}$ .  
T *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1176-1450.  
Mercury salts, CU. 786P.  
For other mercury salts see:  
1142-1177-1405.  
1109-1176-1291.
- 1182-1286.  
Nickel carbonate;  $\text{NiCO}_3$ .  
T *Sclerotinia fructicola* and wheat bunt; NT *Alternaria solani*. 246, 916A.
- 1182-1291.  
Nickel chloride;  $\text{NiCl}_2$ .  
T *Sclerotinia fructicola*, *Alternaria solani*, and wood-destroying fungi. 60, 916A.
- 1182-1296.  
Nickel chromate, basic.  
T several species wood-destroying fungi. 60.
- 1182-1312.  
Nickel fluoride;  $\text{NiF}_2$ .  
T *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1182-1325.  
Nickel hydroxide, CU.  
T wheat bunt. 246.
- 1182-1350.  
Nickel oxide;  $\text{NiO}$ .  
T *Sclerotinia fructicola*; NT *Alternaria solani*. 916A.
- 1182-1389.  
Nickel sulphate;  $\text{NiSO}_4$ .  
T *Septoria* blight and *Fomes annosus*. 59, 916A.
- 1182-1392.  
Nickel sulphide;  $\text{Ni}_3\text{S}_2$ .  
T wheat bunt. 246.
- For other nickel salts see:  
1109-1182-1254.  
1109-1182-1389.
- 1184-1291.  
Nitrogen trichloride;  $\text{NCl}_3$ .  
In concentrations of 5 mg. per cubic foot and upwards is lethal to spores and mycelium of blue and green mold. 804, 805.
- 1196-1252.  
Potassium dihydrogen pyranthimonate;  $\text{K}_2\text{H}_2\text{Sb}_2\text{O}_7 \cdot 4\text{H}_2\text{O}$ .  
T *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1196-1254.  
Potassium dihydrogen arsenate;  $\text{KH}_2\text{AsO}_4$ .  
T *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1196-1274.  
Potassium bromate;  $\text{KBrO}_3$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1196-1286.  
Potassium hydrogen carbonate;  $\text{KHCO}_3$ .  
NT late and *Septoria* tomato blights. 916A.
- 1196-1286.  
Potassium carbonate;  $\text{K}_2\text{CO}_3$ .  
Injected into chestnut trees for blight control. 175, 1213B.
- 1196-1296.  
Potassium chromate;  $\text{K}_2\text{Cr}_2\text{O}_7$ .  
Injected into chestnut trees for blight control. 175, 1213B.
- 1196-1297.  
Potassium dichromate;  $\text{K}_2\text{Cr}_2\text{O}_7$ .  
Injected into chestnut trees for blight control; T *Fomes annosus*. 59, 175, 1213B.
- 1196-1308.  
Potassium ferriyanide;  $\text{K}_3\text{Fe}(\text{CN})_6$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.

- 1196-1309.  
Potassium ferrocyanide;  $K_4Fe(CN)_6 \cdot 3H_2O$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1196-1313.  
Potassium fluosilicate;  $K_2SiF_6$ . (Hiernite).  
T *Alternaria solani*; ST *Macrosporium sarcinae-formae* and *Sclerotinia fructicola*. 717, 916A.
- 1196-1315.  
Potassium fluotitanate;  $K_2TiF_6$ . (Potassium titanium fluoride).  
T *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1196-1325.  
Potassium hydroxide; KOH.  
Injected into chestnut trees for blight control; T downy mildew of hops. 175, 1051, 1213B.
- 1196-1330.  
Potassium iodate;  $KIO_3$ .  
T *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1196-1330.  
Potassium hydrogen iodate;  $KH(IO_3)_2$ .  
T *Alternaria solani*; NT *Sclerotinia fructicola*. 916A.
- 1196-1333.  
Potassium iodide; KI.  
T *Fomes annosus*; NT *Sclerotinia fructicola* and *Alternaria solani*. 59, 916A.
- 1196-1335.  
Potassium permanganate;  $KMnO_4$ .  
T wood-destroying fungi, athlete's foot, and other mycoses; used to disinfect beet seeds against *Tri-choderma*; NT *Fusarium cubense*. 60, 283, 770, 1120A.
- 1196-1341.  
Potassium nitrate;  $KNO_3$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1196-1356.  
Dipotassium hydrogen phosphate;  $K_2HPO_4$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1198-1380.  
Potassium selenite;  $K_2SeO_3$ .  
NT chestnut blight. 175, 1363A.
- 1196-1389.  
Potassium sulphate;  $K_2SO_4$ .  
Injected into chestnut trees for blight control. 175, 1213B.
- 1196-1392.  
Potassium polysulphide;  $KS_x$ . (Liver of sulphur). 580.
- 1196-1404.  
Potassium tellurite;  $K_2TeO_4$ .  
NT chestnut blight. 175, 1363A.
- 1206-1286.  
Rubidium carbonate;  $Rb_2CO_3$ .  
MT mold fungi at 1.0%. 476.
- 1206-1291.  
Rubidium chloride;  $RbCl$ .  
MT mold fungi at 1.0%. 476.
1212.  
Selenium; Se.  
NT spores of *Sclerotinia americana*, *Pestalotia strelata*, and *Uromyces caryophyllinus*. 1486.
1216.  
Silver, colloidal; Ag.  
Injected into chestnut trees for blight control; not so efficient as bordeaux mixture for control of late potato blight. 175, 1056, 1213B.
- 1216-1254.  
Silver orthoarsenate;  $Ag_3AsO_4$ .  
T *Phytophthora infestans* and *Alternaria solani*. 1054, 1055.
- 1216-1260.  
Silver orthoarsenite;  $Ag_3AsO_3$ .  
T *Phytophthora infestans* and *Alternaria solani*. 1054, 1055.
- 1216-1276.  
Silver bromide;  $AgBr$ .  
T *Phytophthora infestans*. 1054, 1055.
- 1216-1289.  
Silver carbonate;  $Ag_2CO_3$ .  
T *Phytophthora infestans* and *Alternaria solani*. 1054, 1055.
- 1216-1291.  
Silver chloride;  $AgCl$ .  
T *Sclerotinia fructicola*, *Phytophthora infestans*, and *Alternaria solani*. 916A, 1054, 1055.
- 1216-1296.  
Silver chromate;  $Ag_2CrO_4$ .  
T *Sclerotinia fructicola*, *Phytophthora infestans*, and *Alternaria solani*. 916A, 1054, 1055.
- 1216-1297.  
Silver dichromate;  $Ag_2Cr_2O_7$ .  
T *Phytophthora infestans* and *Alternaria solani*. 1054, 1055.
- 1216-1303.  
Silver cyanide;  $AgCN$ .  
T *Phytophthora infestans*, *Sclerotinia fructicola*, and *Alternaria solani*. 916A, 1054, 1055.
- 1216-1308.  
Silver ferricyanide;  $Ag_3Fe(CN)_6$ .  
T *Phytophthora infestans*. 1054, 1055.
- 1216-1333.  
Silver iodide;  $AgI$ .  
T *Phytophthora infestans*. 1054, 1055.
- 1216-1340.  
Silver molybdate;  $Ag_2MoO_4$ .  
T *Phytophthora infestans*. 1055.
- 1216-1341.  
Silver nitrate;  $AgNO_3$ .  
T *Fomes annosus* and *Alternaria solani*. 59, 1054.
- 1216-1350.  
Silver oxide;  $Ag_2O$ .  
T *Sclerotinia fructicola* and *Alternaria solani*; not so effective as bordeaux mixture for control of late potato blight. 916A, 1055, 1056.
- 1216-1356.  
Silver orthophosphate;  $Ag_3PO_4$ .  
T *Alternaria solani* and *Phytophthora infestans*. 1054, 1055.
- 1216-1389.  
Silver sulfate;  $Ag_2SO_4$ .  
T *Alternaria solani* and *Sclerotinia fructicola*. 916A, 1054.
- 1216-1392.  
Silver sulfide;  $Ag_2S$ . 1054.
- 1216-1393.  
Silver sulfite;  $Ag_2SO_3$ .  
T *Phytophthora infestans*. 1055.
- 1216-1405.  
Silver thiocyanate;  $AgSCN$ .  
T *Phytophthora infestans*. 1054, 1055.
- 1216-1411.  
Silver thiosulfate;  $Ag_2S_2O_3$ .  
Weakly fungicidal. 1054.
- 1216-1420.  
Silver tungstate;  $Ag_2WO_4$ .  
T *Phytophthora infestans*. 1055.
- 1216-1450.  
Silver salts.  
T wood-destroying fungi. 60.  
For other silver salts see:  
1162-1216-1341-1389.  
1174-1216-1341-1389.
- 1218-1254.  
Disodium hydrogen orthoarsenate;  $Na_2HAsO_4$ .  
T *Sclerotinia fructicola*, *Alternaria solani*, powdery mildew of cucumber, American mildew (*Sphaerotheca mors-uvae*) of gooseberry, and apple mildew (*Podosphaera leucotricha*). 580, 916A, 1374.
- 1218-1260.  
Sodium arsenite, CU.  
T several species wood-destroying fungi. 60.
- 1218-1260.  
Disodium hydrogen orthoarsenite;  $Na_2HAsO_3$ .  
T powdery mildew of cucumber but caused leaf scorch. 1374.
- 1218-1264.  
Sodium azide;  $NaN_3$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1218-1268.  
Sodium bismuthate;  $NaBiO_3$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1218-1270.  
Sodium tetraborate;  $Na_2B_4O_7$ . (Borax).

- T *Fomes annosus* and several species wood-destroying fungi. 59, 60.
- 1218-1270.  
Sodium perborate;  $\text{NaBO}_3\text{H}_2\text{O}$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1218-1286.  
Sodium carbonate;  $\text{Na}_2\text{CO}_3$ .  
Injected into chestnut trees for blight control; T *Phymatotrichum* root-rot. 175, 1213B, 1387.
- 1218-1291.  
Sodium chloride;  $\text{NaCl}$ .  
Injected into chestnut trees for blight control; seed treatment. 175, 907P, 1213B.
- 1218-1294.  
Sodium hypochlorite;  $\text{NaClO}$ . (Modified Dakin's solution).  
T *Trichophyton* fungus. 283, 322P.
- 1218-1296.  
Sodium chromate;  $\text{Na}_2\text{Cr}_2\text{O}_4$ .  
T *Fomes annosus* and several species wood-destroying fungi. 59, 60.
- 1218-1297.  
Sodium dichromate;  $\text{Na}_2\text{Cr}_2\text{O}_7$ .  
T *Fomes annosus* and several species wood-destroying fungi. 59, 60.
- 1218-1312.  
Sodium fluoride;  $\text{NaF}$ .  
T *Septoria* blight, *Fomes annosus*, and several species wood-destroying fungi. 59, 60, 916A.
- 1218-1313.  
Sodium fluosilicate;  $\text{Na}_2\text{SiF}_6$ . (Sodium silicofluoride).  
T *Sclerotinia fructicola*, *Alternaria solani*, and T mold fungi at 0.15%; ST *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 476, 717, 916A.
- 1218-1325.  
Sodium hydroxide;  $\text{NaOH}$ .  
T *Fomes annosus* and downy mildew of hops; injected into chestnut trees for blight control; seed treatment. 59, 175, 907P, 1051, 1213B.
- 1218-1330.  
Sodium iodate;  $\text{NaIO}_3$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1218-1340.  
Sodium molybdate;  $\text{Na}_2\text{MoO}_4$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1218-1345.  
Sodium nitroprusside;  $\text{Na}_2\text{Fe}(\text{CN})_5\text{NO} \cdot 2\text{H}_2\text{O}$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1218-1356.  
Trisodium phosphate;  $\text{Na}_3\text{PO}_4$ .  
T wood-destroying fungi but slowly lowers mechanical strength. 60.
- 1218-1376.  
Sodium selenate;  $\text{Na}_2\text{SeO}_4$ .  
ST *Macrosporium sarcinaeforme*. 717.
- 1218-1380.  
Sodium selenite;  $\text{Na}_2\text{SeO}_3 \cdot 5\text{H}_2\text{O}$ .  
NT chestnut blight. 175, 1363A.
- 1218-1384.  
Sodium metasilicate;  $\text{Na}_2\text{SiO}_3$ .  
ST several species wood-destroying fungi. 655.
- 1218-1392.  
Sodium sulphide;  $\text{Na}_2\text{S} \cdot 9\text{H}_2\text{O}$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1218-1392.  
Sodium polysulphide;  $\text{NaSx}$ .  
T *Fusarium cubense* and *Gloeosporium musarum*. 550, 1420A.
- 1218-1393.  
Sodium dithionite;  $\text{Na}_2\text{S}_2\text{O}_4 \cdot 2\text{H}_2\text{O}$ . (Sodium hydrosulphite).  
Non-fungicidal. 903.
- 1218-1393.  
Sodium sulfite;  $\text{Na}_2\text{SO}_3$ .  
T *Fomes annosus*, *Trichophyton* fungus, *Achorion Schonleinii*, *Trichophyton ectothrix*, and *Dermatomyces*, 59, 283.
- 1218-1399.  
Sodium pyrosulfite;  $\text{Na}_2\text{S}_2\text{O}_5$ . (Sodium metabisulphite).  
Non-fungicidal. 903.
- 1218-1399?  
Sodium hydrogen sulfite;  $\text{NaHSO}_3$ ? (Sodium bisulfite).  
T *Fomes annosus*, *Trichophyton* fungus, *Achorion Schonleinii*, *Trichophyton ectothrix*, and *Dermatomyces*, 59, 283.
- 1218-1404.  
Sodium tellurite;  $\text{Na}_2\text{TeO}_3$ .  
NT chestnut blight. 175, 1383A.
- 1218-1414.  
Sodium thiosulphate;  $\text{Na}_2\text{S}_2\text{O}_3 \cdot 5\text{H}_2\text{O}$ .  
Injectious controlled apple mildew; NT *Sclerotinia fructicola* and *Alternaria solani*. 175, 903, 916A, 1167A.
- 1218-1420.  
Sodium tungstate;  $\text{Na}_2\text{WO}_4$ .  
T *Fomes annosus*. 59.
- 1220-1288.  
Strontium carbonate;  $\text{SrCO}_3$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1220-1350.  
Strontium oxide;  $\text{SrO}$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1220-1351.  
Strontium peroxide;  $\text{SrO}_2$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1220-1389.  
Strontium sulphate;  $\text{SrSO}_4$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
1222.  
Sulphur; S.  
Commonly used fungicide, T to many species fungi.
- 1222-1350.  
Sulfur dioxide;  $\text{SO}_2$ .  
Used to prevent fungus growth on stored grapes. 804.
1226.  
Tellurium; Te.  
NT *Sclerotinia americana* and *Pestalotia stellata*. 1486.
- 1228-1286.  
Thallium carbonate;  $\text{Tl}_2\text{CO}_3$ .  
HT mold fungi at 0.02%. 476.
- 1228-1296.  
Thallium chromate;  $\text{Tl}_2\text{CrO}_4$ .  
T *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1228-1389.  
Thallium sulfate;  $\text{Tl}_2(\text{SO}_4)_2$ .  
T several species wood-destroying fungi. 60, 655.
- 1228-1450.  
Thallium salts, CU.  
T wood-destroying fungi. 60.
- 1230-1450.  
Thorium salts, CU.  
T wood-destroying fungi. 60.
- 1234-1350.  
Stannous oxide;  $\text{SnO}$ . (Tin oxide).  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1234-1350.  
Stannic oxide;  $\text{SnO}_2$ . (Cassiterite).  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1234-1450.  
Tin salts, CU.  
T wood-destroying fungi but slowly lowers mechanical strength. 60.
- 1240-1450.  
Uranium salts, CU.  
T wood-destroying fungi. 60.
- 1242-1350.  
Vanadium pentoxide;  $\text{V}_2\text{O}_5$ .  
T *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1244-1286.  
Zinc carbonate;  $\text{ZnCO}_3$ .  
Injected into chestnut trees for blight control. 175, 1213B.

- 1244-1291.  
Zinc chloride;  $\text{ZnCl}_2$ .  
T *Fomes annosus*, several species wood-destroying fungi, and at 0.5% T *Fusarium cubense* and *Gloeosporium musarum*. 59, 60, 1420A.
- 1244-1303.  
Zinc cyanide;  $\text{Zn}(\text{CN})_2$ .  
T *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- 1244-1313.  
Zinc fluosilicate;  $\text{ZnSiF}_6$ . (Zinc silicofluoride).  
T *Alternaria solani*; MT mold fungi at 0.13%; ST *Macrosporium sarciniforme* and *Sclerotinia fructicola*. 476, 717, 916A.
- 1244-1350.  
Zinc oxide;  $\text{ZnO}$ .  
T *Alternaria solani* and *Phytophthora infestans*; NT *Sclerotinia fructicola*; widely used seed treatment. 916A, 1429.
- 1244-1351.  
Zinc peroxide;  $\text{ZnO}_2$ . 762P.
- 1244-1380.  
Zinc selenite;  $\text{ZnSeO}_3$ .  
ST several species wood-destroying fungi. 655.
- 1244-1389.  
Zinc sulfate;  $\text{ZnSO}_4 \cdot 7\text{H}_2\text{O}$ .  
MT *Phytophthora infestans*. 1055.
- 1244-1392.  
Zinc sulphide;  $\text{ZnS}$ .  
NT *Sclerotinia fructicola* and *Alternaria solani*. 916A.
- For other zinc salts see:  
1109-1142-1244-1384.  
1109-1244-1312.
- 1246-1303.  
Alkali cyanides, CU. 163P.
- 1246-1340.  
Molybdates, CU.  
T wood-destroying fungi. 60.
- 1246-1405.  
Alkali thiocyanates. 163P.
1254.  
Orthoarsenic acid;  $\text{H}_3\text{AsO}_4$ .  
ST *Eruania amylovora*. 779.
1290.  
Arsenious acid;  $\text{H}_3\text{AsO}_3$ .  
T several species wood-destroying fungi; ST at non-phytotoxic concentrations on seeds. 74, 655.
1270.  
Boric acid;  $\text{H}_3\text{BO}_3$ .  
T several species wood-destroying fungi; 0.2% T *Fusarium cubense* and *Gloeosporium musarum*. 60, 1420A.
1276.  
Bromine; Br.  
Used with volatile compounds of chromium. 855P.
1291.  
Chlorine;  $\text{Cl}_2$ . 804, 805, 855P.
1291.  
Hydrochloric acid;  $\text{HCl}$ .  
T downy mildew of hops; T *Gloeosporium musarum* at 0.5% and to *Fusarium cubense* at 0.75%. 1051, 1420A.
1303.  
Hydrocyanic acid;  $\text{HCN}$ .  
T *Trichoderma lignorum*. 804.
1333.  
Iodine;  $\text{I}_2$ .  
T wood-destroying fungi but too volatile as wood preservative. 60.
1350.  
Ozone;  $\text{O}_3$ .  
Only partially inhibited the germination and growth of fungi on agar. 804, 805, 855P.
1351.  
Hydrogen peroxide;  $\text{H}_2\text{O}_2$ . (Peroxide).  
T *Trichophyton* fungus and *Achorion Schonleinii* but otherwise rarely used as fungicide. 283, 855P.
1378.  
Hydrogen selenide;  $\text{H}_2\text{Se}$ .  
As toxic as hydrogen sulphide. 1486.
1389.  
Sulphuric acid;  $\text{H}_2\text{SO}_4$ .  
T downy mildew of hops and *Fomes annosus*. 59, 1051.
1392.  
Hydrogen sulfide;  $\text{H}_2\text{S}$ .  
T *Trichoderma lignorum*. 804, 1443.
1393.  
Sulfurous acid;  $\text{H}_2\text{SO}_3$ . (Solution of sulfur dioxide).  
T *Achorion schonleinii* and *Trichophyton ectothrix*. 283.
1409.  
Pentathionic acid;  $\text{H}_2\text{S}_5\text{O}_6$ .  
T 9 pathogenic fungi. 857.



# CONDENSATION PRODUCTS

- Aluminates and phenols. 186P.  
 Antimonates and phenols. 186P.  
 Arsenomethane and dithioglycolic acid. 364P, 1129P.  
 Arsenotungstate, luteo-Na, and phenols. 186P.  
 Benzaldehyde, *o*-sulpho-, (1 mole) and *p*-chlorophenol, (2 moles), brominated.  
 Moldproofing agent. 455P, 1179.  
 Calcium sulfite + oxalic acid.  
 NT *Fusarium cubense*. 1420A.  
*p*-Chlorophenol (2 moles) with chloride (1 mole). (Obtained from *o*-sulphobenzaldehyde and  $\text{PCl}_5$  in the presence of chlorobenzene and ferric chloride or nitrobenzene and aluminum chloride).  
 Moldproofing agent. 451P, 1179.  
*p*-Chlorophenol with chloride (1 mole). (Obtained from 4-chloro-2-sulphobenzaldehyde and  $\text{PCl}_5$  in the presence of chlorobenzene and ferric chloride or nitrobenzene and aluminum chloride).  
 Moldproofing agent. 451P, 1179.  
*p*-Chlorophenol with chloride (1 mole). (Obtained from 5-chloro-2-sulphobenzaldehyde and  $\text{PCl}_5$  in the presence of chlorobenzene and ferric chloride or nitrobenzene and aluminum chloride).  
 Moldproofing agent. 451P, 1179.  
 Chromates and phenols. 186P.  
 Diethylaminoethyl chloride and benzyl bromide. 349P.  
 Formaldehyde phenol, CU. 786P.  
 Furfural and mercury chloride.  
 T *Diplodia*, *Giberella*, and *Basisporium*. 1131P.  
 Glycolic acid, dithio-, with arsenodimethyl.  
 Controls smut in oats; used as dust, T *Fusarium* infected rye seed. 1129P, 1178.  
 Methanes, hydroxydi-. (Obtained from aldehydes and halogenated phenols, in which both ortho-positions and the para-position to the hydroxyl are occupied but at least one meta-position is free). 439P, 1179.  
 Methanes, triaryl-. (Obtained from aldehydes and halogenated phenols in which both ortho-positions and the para-position to the hydroxyl are occupied but at least one meta-position is free). 439P, 1179.  
 Methylarsine oxide and thiosalicylic acid.  
 T *Fusarium* infested rye seed. 364P, 1129P, 1178.  
 $\beta$ -Naphthol, thio-, with methyl-arsenoxide.  
 T spores of barley blight. 382P, 1129P, 1178.  
 Rhodanide,  $\alpha,\beta$ -chloroethylene. 529P.  
 Sodium chromimolybdate. 186P.  
 Stannates and phenols. 186P.  
 Sulfostannates and phenols. 186P.  
 2,4,5-Trichlorobenzyl chloride and *p*-chlorophenol, (equimolecular quantities), brominated.  
 Moldproofing agent. 455P, 1179.  
 Zincates and phenols. 186P.  
 $\text{NH}_2\text{CHRCOOH}$ , reaction product with  $\text{CS}_2$  and O. Where R is H or an alkyl, aryl or heterocyclic radical, are boiled under reflux in aq. soln. with  $\text{CS}_2$  and the soln. obtained is oxidized with air in the presence of a catalyst.  
 Seed disinfectant. 732P.

# PLANT PRODUCT FUNGICIDES

- Amygdalus communis* L. (Bitter almond).  
Oil injected into chestnut trees for blight control. 175, 1213B.
- Arachis hypogaea* L. (Peanut).  
Oil T at 5% *Sphaerotheca humuli*. 902.  
Bark, unspecified, extracts of.  
Injected into chestnut trees for blight control. 175, 1213B.
- Bindweed. See *Convolvulus arvensis*.
- Brassica campestris* L. (Rapeseed oil).  
Oil T *Sphaerotheca humuli* at 0.5%. 902.
- Brassica* spp. (Mustard).  
Oil of mustard A NT at 0.25% but T at 0.5% *Sphaerotheca humuli*; at 0.5% mustard B gave same fungicidal effect as with 0.5% oil of mustard A. 902.
- Castanea dentata* (Marsh.) Borkh. (American chestnut).  
Water exts. of bark and blight cankers used as tree injections for blight control. 175, 1213B.
- Castor oil. See *Ricinus communis*.
- Chestnut. See *Castanea dentata*.
- Convolvulus arvensis* L. (Sap from bindweed).  
T downy mildew of hops. 1051.
- Corn. See *Zea mays*.
- Cossypium* spp. (Cottonseed oil).  
Oil T *Sphaerotheca humuli* at 0.5%. 902.
- Humulus* sp. (Hops).  
Sap T downy mildew of hops. 1051.
- Linum usitatissimum* L. (Linseed oil).  
Oil NT at 0.5% but T at 1% to *Sphaerotheca humuli*. 902.
- Maize oil. See *Zea mays*.
- Mustard oil. See *Brassica* spp.
- Olea europaea* L. (Olive oil).  
Oil T *Sphaerotheca humuli* at 0.5%. 902.
- Papaver somniferum* L. (Poppy).  
At 0.5% the wash proved to be fungicidal or not quite fungicidal. 902.
- Peach-kernel oil. See *Prunus* spp.
- Peanut oil. See *Arachis hypogaea*.
- Poppyseed oil. See *Papaver somniferum*.
- Prunus* spp. (Peach).  
Peach-kernel oil T *Sphaerotheca humuli* at 0.5%. 902.
- Rapeseed oil. See *Brassica campestris*.
- Ricinus communis* L. (Castor oil).  
Oil T *Sphaerotheca humuli* at 1%. 902.
- Sesamum indicum* L. (Sesame oil).  
Oil T *Sphaerotheca humuli* at 0.5%. 902.
- Soja max* (L.) Piper. (Soybean).  
Oil MT *Sphaerotheca humuli* at 0.25%. 902.
- Urtica lyallii* (Wats.). (Sap from nettles).  
T downy mildew of hops. 1051.
- Zea mays* L. (Maize or corn oil).  
Oil T *Sphaerotheca humuli* at 1%. 902.

# MISCELLANEOUS FUNGICIDES

- Acetate, copper.  
T walnut blight. 961.
- Acetate, copper benzoyl-  
T *Macrosporium sarcinaeforme*. 717.
- Acetate, copper propionyl-  
T *Macrosporium sarcinaeforme*. 717.
- Cinchona alkaloids.  
T *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289, 717.
- Casein.  
NT several species wood-destroying fungi. 655.
- Cottrell dust. 1302.
- Cresote.  
T *Fusarium cubense* and several species wood-destroying fungi. 60, 1420A.
- Gasoline.  
NT *Fusarium cubense*. 1420A.
- Gentian violet.  
T *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- Goulac. (Lignin pitch; lignosulfonates).  
NT several species wood-destroying fungi. 655.
- Gun arabic sulfonic acid. 834P, 1432.
- Helione yellow.  
T *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- Isocholesterin.  
Dry disinfectant for seeds. 1498P.
- Juglone (from black walnut hulls). 717.
- Methyl parasept.  
ST *Macrosporium sarcinaeforme*. 717.
- Nicotine cyanide oleate, mixture, CU. 916P.
- Oil, cod-liver.  
Fungicidal at 0.5%. 902.
- Oil, fuel.  
NT *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- Oil, mineral. 904.
- Oil, neatfoot.  
Non-fungicidal at 0.5%. 902.
- Oil, seal.  
Non-fungicidal at 1%. 902.
- Oil, pine tar.  
Injected into fruit trees. 175, 1508AP.
- Oil, tar.  
Too injurious for use. 904.
- Orange Helione.  
T spores of *Cladosporium fulvum* Cke. 1476.
- Petroleum mihogany sulphonate, metallic salts of. 32DP.
- Phenothiazine, oxidized.  
T *Sclerotinia fructicola*. 717.
- Pitch, anthracene. 356P.
- Pitch, naphthol, sulfonated. 356P.
- Pyridine cyanide oleate, mixture, CU. 916P.
- Resinate, mercuric.  
T several species wood-destroying fungi. 655.
- Rhodamine, CU.  
Results encouraging but not conclusive against mildew on grapevines. 950.
- Rosin.  
T onion-mildew sporangia. 1507.
- Saponin.  
Seed treatment. 183P.
- Silver nucleinate.  
T *Phytophthora infestans*. 1054, 1055.
- Silver-soap.  
ST *Phytophthora infestans*. 1055.
- Sinigrin. (Glucose, + allyl isothiocyanate, +  $\text{KHSO}_4$ ).  
Slight fungicidal effect. 1448.
- Sodium iodochlorate.  
Greater and more fungicidal effect than iodine. 283.
- Tannic acid.  
T downy mildew of hops. 1051.
- Tar phenols, chlorinated low temperature.  
Fraction with b.p. 120-165° at 3 mm., MT mold fungi at 0.1%. 476.
- Tar phenols, chloromercuri derivatives of low temperature.  
Fraction with b.p. 75-130° at 3 mm., HT mold fungi at 0.02%; fraction with b.p. 185-190° at 3 mm., HT mold fungi at 0.01-0.02%; fraction with b.p. 195-200° MT mold fungi at 0.02%. 476.
- Turpentine.  
Tree injection. 175, 1508AP.
- Valone.  
T *Macrosporium sarcinaeforme* and *Sclerotinia fructicola*. 289.
- Anion-X-R-O-acyl.  
In which X is an atom of N of a tertiary cyclic base and R is a group containing C. 1334P.
- $\text{CHC(R)(CH)}_2\text{X}$ .  
An aralkyl polyhydric phenol corresponding to the general formula wherein X is a phenolic radical selected from the class consisting of polyhydroxy aryl and polyhydroxy haloaryl radicals of the benzene series, and R is a lower alkyl radical. 1089P.
- $\text{C}_{10}\text{H}_{15}\text{N}$ , CU.  
T *Phymatotrichum omnivorum*. 1162.
- $\text{C}_6\text{H}_{11}\text{SN}_3$ , CU.  
Thiourea and  $\text{NH}_3\text{-AcH}$  give a product  $\text{C}_6\text{H}_{11}\text{SN}_3$ . 361P.
- $(\text{NH}_2\text{RNH}_2)_x\text{-}(\text{RH}_2\text{Y})_z$ .  
When R is alkylene group, R' an alkyl residue, Y a hydroxyl group or an acid residue while x and z are whole numbers. 1233P.
- $\text{RHgSR}'$ .  
In which R is a hydrocarbon radical, X an alkyl, acid, OH or SH group and R' a COOH or  $\text{SO}_3\text{H}$  group. 303P.
- $\text{RCOCH(R')CH}_2\text{Y}$ .  
Where R is an aryl or chloroaryl group, R' is hydrogen or alkyl, and Y is the residue of an amine from the class consisting of primary and secondary amines. 719P.
- $\text{R'HN'(C:NHR'')SHgR}$ .  
Compounds of the type  $\text{RHgX}$ , where R is a hydrocarbon radical which may be substituted, and X hydrogen or an acid are treated with thiocarbamide or N-substituted derivative thereof yielding compounds of the above type, where R' and R'' are H, alkyl, or aryl. 463P.
- $(\text{RHe})_2\text{S}$ .  
In which R is a hydrocarbon radical, X an alkyl, acid, OH or SH group and R' a COOH or  $\text{SO}_3\text{H}$  group. 303P.
- $\text{RH}_2\text{X}$ .  
In which R is a hydrocarbon radical, X an alkyl, acid, OH or SH group and R' a COOH or  $\text{SO}_3\text{H}$  group. 302P, 303P.
- S-Manganous-Al hydrate. 1104.
- $\text{XHgCR}_2\text{CR}_2\text{OR}'$ .  
The general formula for this seed disinfectant, where X = OH, acetate, isetate, oxalate, sulfate, chloride, thiocyanate, etc. 1263P.
- $\text{ZNHR}$ .  
In which Z is a univalent replaceable element and R is an organic radical of which 1 C atom is linked with the N atom of the NH group. 1296P.



# PLANT INSECTICIDES



# PLANT INSECTICIDES

- Abelmoschus moschatus*, see *Hibiscus abelmoschus* L.
- Abies balsamea* (L.) Mill. (Balsam fir).  
Canada balsam, obtained from this species, is mentioned in a patent as a constituent of an adhesive composition to be used in mothproofing. 933B.
- Abies concolor* (Gord. and Glend.) Hoopes. (White fir).  
Exts. were not repellent to Japanese beetle. 933B.
- Abies veitchii* Lindl. (Veitch fir).  
Exts. were not repellent to Japanese beetle. 933B.
- Abrus precatorius*. (Jequirity; prayer beads; crab's eye bean).  
Acetone ext. of root and stem 10% T and seeds NT mosquito larvae. 643A, 645.
- Absinthium vulgare*, see *Artemisia absinthium*.
- Abuta imene* (Mart.) Eichl.  
Used as fish poison in Brazil. 795.
- Acacia arabica*, see *A. nilotica*.
- Acacia catechu* Willd. (Catechu; cutch).  
Exts. were not repellent to Japanese beetle; used as insect repellent in a paint or coating for application to underwater structures to prevent decay and ravages by marine life, insects, vermin, and rodents; oil of aromatic catechu "A" T. *Lucilia cuprina* larvae. 849, 933B.
- Acacia falciformis* DC.  
Exts. of leaves and bark were NT bean aphid. 933B.
- Acacia longifolia* Willd. (Sydney wattle).  
Commercial ext. was repellent to Japanese beetle. 933B.
- Acacia nilotica* (L.) Willd. (*A. arabica* (Lam.) Willd.; *A. scorpioides* (L.) W. F. Wight; babool tree).  
Leaves mixed with coconut oil were applied in cases of itch. 933B.
- Acacia pennata* Willd.  
Exts. of leaves and bark of this fish poison plant from Australia and Burma were NT bean aphid. 933B.
- Acacia pruinescens* Kunt.  
Exts. of leaves and bark of this fish poison plant from Australia and Burma were NT bean aphid. 933B.
- Acacia salicina* Lindl.  
Exts. of leaves and bark of this fish poison plant from Australia and Burma were NT bean aphid. 933B.
- Acacia scorpioides*, see *A. nilotica*.
- Acacia senegal* Willd.  
Arabic gum, with oil, is an efficient emulsifier. 933B.
- Acacia* sp.  
Acacia gum was unstable as emulsifier. 933B.
- Acalypha indica* L. (*A. spicata* Forsk.).  
In India the powdered leaves mixed with common salt were applied externally for scabies; powder of dry leaves used in wounds attacked by worms; 5% alc. ext. of stem bark killed caterpillars as follows: 100% *Euproctis fraterna*, 90% *Plutella maculipennis* and *Pericalia ricini*, 50% *Prodenia litura*, and 40% *Crocidolomia binotalis*. 933B.
- Acer platanoides* L. (Norway maple).  
Acetone and water exts. of leaves NT mosquito larvae. 643A.
- Acer pseudoplatanus* L. (Sycamore maple).  
Acetone ext. of leaves 10% T mosquito larvae. 643A.
- Acer rubrum* L. (Red maple).  
Exts. were not repellent to Japanese beetle. 933B.
- Acer saccharinum* L. (Silver maple).  
Exts. were not repellent to Japanese beetle. 933B.
- Acer saccharum* Marsh. (Sugar maple; rock maple).  
Acetone and water ext. of leaves NT mosquito larvae. 643A.
- Achillea millefolium* L. (Common yarrow).  
Powder and decoction NT aphids. 933.
- Achillea nobilis* L. (Camphor yarrow).  
Flower heads have an action on insects similar to that of insect powder. 933.
- Acnistus arborescens* (L.) Schlecht.  
Used as fish poison in West Indies and Central and South America. 795.
- Acokanthera longiflora* Stapf.  
Exts. of leaves and stems ST citrus aphids. 933B.
- Aconite, see *Aconitum napellus*.
- Aconitum chinense* Paxton.  
HT silkworm and Mexican bean beetle; low mortality to other insects. 837.
- Aconitum columbianum* Nutt. (Columbia monkshood).  
Ext. of roots, leaves, and stems NT grasshoppers; used as dust NT bees. 933.
- Aconitum napellus* L. (Aconite).  
Water ext. T stag beetle; acetone ext. of root NT mosquito larvae. 645, 933.
- Aconitum villosum* Robb.  
Dust HT silkworm and Mexican bean beetle. 837.
- Aconitum* sp.  
T silkworm and Mexican bean beetle, but gave low mortality to other insects. 837.
- Acorus calamus* L. (Sweet flag; calamus).  
T as mothproofing agent; oil T *Lucilia cuprina* larvae. 833P, 849, 1176.
- Acorus gramineus* Soland.  
In India the roots were stated to be used as an insecticide and insectifuge. 933B.
- Adiantum vesica*, see *Justicia adhatoda*.
- Adiantum capillus-veneris* L. (Southern maidenhair).  
Exts. were not repellent to Japanese beetle. 933B.
- Adina cordifolia* (Roxb.) Benth. and Hood. ex. Brandis. (*Nuclea cordifolia* Willd.).  
In India the bark, ground into paste with water, was considered to be antiseptic and prevented generation of worms in sores; juice used as insecticide. 933B.
- Adonis vernalis* L. (Spring adonis).  
Exts. were not repellent to Japanese beetle. 933B.
- Aeschynomene excelsa*, see *Picrasma excelsa*.
- Aeschynomene eschbaia*, see *Sesbania aegyptiaca*.
- Aeschynomene sensitiva* Sw.  
Seeds reported to contain rotenone. 759.
- Aesculus californica*. (California buckeye).  
Dust made from nuts ST Mexican bean beetle. 1144.
- Aesculus glabra* Willd. (Ohio buckeye).  
Alch. ext. of fruit and alc. ext. and decoction of leaves NT cotton caterpillars. 933.
- Aesculus hippocastanum* L. (Horse chestnut).  
Ext. of leaves 5% T mosquito larvae. 643A.
- Aesculus pavia* L. (Red buckeye).  
Bedsteads made of horse chestnut are said not to be infested by bugs. 933.
- Aesculus pavia alba*. (Dwarf buckeye).  
Flowers attract and kill Japanese beetle. 643A.
- Agaric, larch, see *Fomes officinalis*.
- Agaricus muscarius*, see *Amanita muscaria*.
- Agauria salicifolia* Hook. f. (Mgagana).  
Listed as insecticidal in East Africa. 933B.
- Agave americana* L. (Centuryplant).  
Infusion of leaves can be applied as an insecticide. 933.
- Agave lecheguilla* Torr. (Lechuguilla).  
Infusions of roots ST fly larvae. 933.
- Ageratum* sp. (*Ageratum*).  
Exts. were not repellent to Japanese beetle. 933B.
- Agrimonia eupatoria*. (Agrimony).  
Acetone ext. of whole plant T mosquito larvae. 645.

- Agropyron repense* (L.) Beauv. (Quack grass).  
Acetone and water ext. of root 35% T mosquito larvae. 643A.
- Agrostemma githaga* L. (Corncockle).  
NT fly larvae. 933.
- Ailanthus altissima* (Mill.) Swingle. (*Ailanthus glandulosa* Desf.; ailanthus).  
20% T mosquito larvae; decoction and infusion of leaves NT cotton caterpillars. 643A, 933.
- Ajuga bracteosa* Wall.  
In India on the Salt Range it was used to kill lice; plant was known to have insecticidal or repelling properties. 933B.
- Albizia procera* (Roxb.) Benth.  
Used as fish poison and insecticide in India. 933B.
- Albizia stipulata* (Roxb.) Boiv.  
Used as fish poison and insecticide in India; exts. of leaves and bark NT bean aphid. 933B.
- Aletris farinosa*. (Alettris; unicorn).  
Acetone ext. of root 15% T mosquito larvae. 643A.
- Aleurites fordii* Hemsf. (Tung-oil tree).  
Ext. of leaves 40% T mosquito larvae, ext. of stems 5% and ext. of roots NT; used as adhesive against *Bursicola fusca*; used to trap stink bug nymphs in southern China by banding; oil T cockroaches, Colorado potato beetle, and Mexican bean beetle eggs. 78, 643A, 780P, 781P, 933B, 1176.
- Algaroba, see *Ceratonia siliqua*.
- Allium ampeloprasum* var. *porrum* (L.) Regel. (Leek).  
In Belgium an infusion, made by keeping small pieces of plant for one week in water, was said to repel flies. 933B.
- Allium canadense* L. (Meadow garlic).  
Exts. were not repellent to Japanese beetle. 933B.
- Allium cepa* L. (Onion).  
Odor of onions stunned mosquitoes in 4 to 6 hrs. but they recovered. 933B.
- Allium sativum* L. (Garlic).  
Garlic bulbs stored with grain NT weevils; odor stunned mosquitoes in 5 to 10 min. and killed them in 5 hrs. 933B.
- Allium schoenoprasum* L. (Chive).  
Water ext. of whole plant 70% T mosquito larvae. 643A.
- Allspice, see *Pimenta officinalis*.
- Almond, bitter, see *Amygdalus communis*.
- Almond, Indian, see *Terminalia catappa*.
- Aloe barbadensis* Mill. (*A. perfoliata vera* L.; *A. vulgaris* Lam.; barbadoes aloes).  
Found as effective as insect powder on one occasion. 933.
- Aloe ferox* Mill. (Cape aloes).  
Bitter sap, used for dressing wounds, keeps off flies very effectively. 933.
- Aloe perfoliata vera*, see *Aloe barbadensis*.
- Aloe pernyi*. (True succotrine aloes).  
Acetone ext. of whole plant NT mosquito larvae. 645.
- Aloe striatula* Haw.  
Said to attract flies in India. 933B.
- Aloe succotrina* Lam.  
In Germany a weak soln. of tincture of aloes recommended to rid plants of scale insects. 933B.
- Aloe vulgaris*, see *Aloe barbadensis*.
- Aloe* spp.  
Strong decoction with soap added gave good results against certain lepidopterous larvae and aphids; T clothes moth. 933, 1175, 1216P.
- Aloes, barbadoes, see *Aloe barbadensis*.
- Aloes, cape, see *Aloe ferox*.
- Aloes, succotrine, see *Aloe pernyi*.
- Alpinia officinarum* Hance. (Galangal).  
Exts. were not repellent to Japanese beetle. 933B.
- Alsine media*, see *Stellaria media*.
- Althaea officinalis*.  
Acetone ext. of root T mosquito larvae. 645.
- Amanita muscaria* (L.) Pers. (*Agaricus muscarius* L.; fly agaric).  
Used as fly poison. 933.
- Amanita pantherina* Fr.  
Used as fly poison. 933.
- Amaranthus retroflexus* L. (Pigweed).  
Exts. were not repellent to Japanese beetle. 933B.
- Amber, rectified, oil of.  
T *Lucilia cuprina* larvae. 849.
- Ambrosia artemisiifolia* L. (*A. elatior* L.; ragweed).  
Alch. ext. NT cotton caterpillars; exts. were not repellent to Japanese beetle. 933, 933B.
- Ambrosia trifida* L. (Great ragweed).  
Decoction, infusion, and alch. ext. NT cotton caterpillars. 933.
- Amianthium muscatoxicum* A. Gray. (*Melanthium muscatoxicum* Walt.; *Zigadenus muscatoxicum* Regel; *Helonius erythrosperma* Michx.; *Chrosperma muscatoxicum* (Walt.) Kuntze; crow poison).  
T houseflies; powdered bulbs and leaves T cockroaches, grasshoppers, and bees. 933.
- Amomum melegueta* Rose.  
Decoction was rubbed on the skin of domestic animals in Africa to repel tsetse flies. 933B.
- Amorpha fruticosa* L.  
Roots, stems, and seeds reported to contain rotenone. 759.
- Amorphophallus campanulatus* (Roxb.) Blume.  
Odor of flower stalk attractant for bluebottle and other large flies. 933B.
- Anaur cork tree, see *Phellodendron amurense*.
- Amygdalus amara*, see *Prunus amygdalus*.
- Amygdalus communis*, see *Prunus amygdalus*.
- Amygdalus persica*, see *Prunus persica*.
- Anabasis aphylla* L.  
Commercial source of anabesine, an alkaloid closely related to nicotine. 933B.
- Anacardium occidentale* L. (Common cashew).  
T culicine mosquito larvae. 643A.
- Anacyclus pyrethrum* (L.) DC.  
Exts. were not repellent to Japanese beetle. 933B.
- Anagallis arvensis* L.  
Used in India as insecticide or repellent. 933B.
- Anamirta cocculus* (L.) Wight and Arn. (*A. paniculata* Colebr.; *Menispermum cocculus* L.; *M. lacunosum* Lam.; cocculus indicus; fishberry).  
Acetone ext. of berries T mosquito larvae; used as fish poison. 27, 204, 645, 795, 933.
- Ananas comosus*. (*A. sativus* Schult.; pineapple).  
Attractant to oriental cockroach. 933B.
- Anatto tree, see *Bixa orellana*.
- Andira inermis* H. B. K.  
Used for fish poison. 795.
- Andira retusa* (Poir.) H. B. K.  
Used as fish poison. 795.
- Andira rosea* Mart. ("Pulverized wood").  
Used as fish poison. 795.
- Andiroba tree, see *Carapa guianensis*.
- Andrachne cordifolia* Muell. Arg.  
Used in India as insecticide. 933B.
- Andromeda ovalifolia*, see *Lyonia ovalifolia*.
- Andropogon zizanioides*, see *Vetiveria zizanioides*.
- Anemone, American wood, see *Anemone quinquefolia*.
- Anemone pulsatilla* L. (European pasqueflower).  
Exts. were not repellent to Japanese beetle. 933B.
- Anemone quinquefolia* L. (American wood anemone).  
Exts. were not repellent to Japanese beetle. 933B.
- Anethum graveolens* L. (Dill).  
Acetone ext. of stems and leaves NT mosquito larvae; English oil T *Lucilia cuprina* larvae. 645, 849.
- Angelica archangelica* L. (*Archangelica officinalis* Hoffm.; angelica).  
Acetone ext. of root 40% T mosquito larvae; NT clothes moth and several species of insects; oil T *Lucilia cuprina* larvae. 42, 643A, 849, 933, 1024, 1176, 1268.
- Angel-trumpet, see *Datura metel*.
- Angophora lanceolata* Cav.  
Orange gum, which comes from this species, was unstable as emulsifier. 933B.
- Aniliton.  
Water and alch. exts. T bees; water ext. NT webworms and small caterpillars; powder, used as fumigant, NT small webworms but used as dust ST tent caterpillars and roaches; used as stomach poison ST roaches and silkworms but NT webworms and flies. 933.
- Anise, see *Pimpinella anisum*.
- Annona cherimola* Mill. (Cherimoya).  
Seed used as insecticide. 933.



- Annona glabra* L. (Pondapple).  
Powder of seed used as insecticide. 933.
- Annona muricata*.  
Seed 95% T, leaf 50%, root 43%, and stem NT  
*chrysanthemum aphid.* 1381.
- Annona palustris*.  
Leaf 100% T, root and stem NT *chrysanthemum*  
*aphid.* 1381.
- Annona reticulata* L. (Custardapple).  
Seed, stem, leaf, and root 100% T *chrysanthemum*  
*aphid.* 933, 1381.
- Annona spinosens* Mart.  
Seeds, powdered or in form of decoction, used as  
insecticide; pulp used as fish poison and for  
killing noxious insects. 795, 933.
- Annona squamosa* L. (Sugarapple).  
Leaf 100% T, root 35%, and stem NT *chrysanthemum*  
*aphid.* seeds T headlice and as parasiticide.  
933, 1381.
- Annona* spp.  
Seeds used crushed to poison fish; milky juice of  
seeds remedy for scabies and used for destroying  
insects. 933B.
- Antennaria* spp. (Pussytoes).  
Exts. were not repellent to Japanese beetle. 933B.
- Anthemis arvensis* L. (Corn camomile).  
Exts. were not repellent to Japanese beetle; flowers  
NT flies; odor drives away mice and insects. 933,  
933B.
- Anthemis cota* L.  
Flower heads T dog fleas but NT flies and ants. 933.
- Anthemis cotula* L. (*Maruta cotula* DC.; mayweed).  
Decoction of leaves T all species of insects; powdered  
flower heads T bedbugs, fleas, but NT grain worms  
and other caterpillars; flowers NT flies. 933.
- Anthemis nobilis* L. (*Chamomilla nobilis* Godr.; com-  
mon camomile).  
Flower heads have an action on insects similar to  
that of insect powder; NT fly larvae and flies. 933.
- Anthemis tinctoria* L. (Yellow camomile).  
Flowers T dog fleas but NT flies and ants. 933.
- Anthemis* spp.  
T mosquitoes. 933.
- Antheroporum pierrei* Gagnepain.  
Seeds reported to contain rotenone. 759.
- Anthriscus vulgaris* Pers. (European chervil).  
Leaves placed on anthills or scattered between  
rows of melons are reported to drive away ants.  
933B.
- Antigonon leptopus* Hook. and Arn.  
Powder, used as dust, and the petroleum ether ext.,  
used as spray, ST currant worms and four species  
of aphids. 933B.
- Antiotrema dunnianum* (Diels.).  
ST several insects. 837.
- Antirrhinum linaria*, see *Linaria vulgaris*.
- Antirrhinum* sp. (Snapdragon).  
Exts. were not repellent to Japanese beetle. 933B.
- Apium graveolens* L. (Celery).  
Oil T *Lucilia cuprina* larvae. 849.
- Apitaxia lappa*, see *Saussurea lappa*.
- Apocynum androsaemifolium* L.  
Exts. were not repellent to Japanese beetle. 933B.
- Apocynum cannabinum* L. (Dogbane).  
Exts. were not repellent to Japanese beetle. 933B.
- Apple, see *Malus sylvestris*.
- Apple, may, common, see *Podophyllum peltatum*.
- Apple, pond-, see *Annona glabra*.
- Apple, sugar-, see *Annona squamosa*.
- Apple, thorn, see *Datura stramonium*.
- Apurimacia incarum* Harms.  
Used as fish poison. 795.
- Aquilaria agallocha* Roxb.  
In India the powerful wood was preventive against  
fleas and lice. 933B.
- Arabisopsis thaliana* (L.) Britton. (Mouse-ear cress).  
Exts. were not repellent to Japanese beetle. 933B.
- Arachis hypogaea* L. (Peanut; groundnut).  
Many published papers discuss oil of peanut or  
groundnut as an insecticide and repellent. 933B.
- Aralia hispida* Vent. (Bristly aralia).  
Exts. were not repellent to Japanese beetle. 933B.
- Aralia nudicaulis*. (American sarsaparilla).  
Acetone ext. of root 45% T mosquito larvae. 643A.
- Aralia racemosa* L. (American spikenard).  
Exts. were not repellent to Japanese beetle. 933B.
- Arbor vite, see *Thuja occidentalis*.
- Arbutus*, trailing, see *Epigaea repens*.
- Archangelica officinalis*, see *Angelica archangelica*.
- Aretium minus* Bernh. (Common burdock).  
Exts. were not repellent to Japanese beetle; acetone  
ext. of roots 5% T mosquito larvae. 933B.
- Aretium* sp. (Burdock).  
Acetone ext. of root 5% T mosquito larvae. 643A.
- Arctostaphylos uva-ursi* (L.) Spreng. (Bearberry).  
Ext. (U.S.P.) was more or less repellent to Japanese  
beetle. 933B.
- Ardisia crispa* A. DC. var. *dielsii* Walker.  
Dust of root T newly hatched larvae of Mexican  
bean beetle; root used for the medication of mange.  
837.
- Areca catechu*. (*A. catechu*).  
Acetone ext. of fruit NT mosquito larvae. 645.
- Argemone fruticosa* A. Gray.  
Oil extracted from plant destroyed larvae attack-  
ing lumber. 933B.
- Argemone mexicana* L. (Mexican or pricklypoppy).  
In Mysore, India the juice used for itch and scabies;  
yellow juice and cold-drawn oil of seeds useful for  
scabies; oil from seeds prevents attacks of white  
ants and borers. 933B.
- Argyrea speciosa* Sweet. (*A. nervosa* (Burm.) Bojer;  
elephant creeper).  
In India the juice, mixed with gingelly oil and  
dill seed, used as an external application for scabies.  
933B.
- Arisaema consanguineum* Schott.  
Roots show fairly low toxicity. 837.
- Arisaema dracontium* L. (Schott). (*Arum dracontium*  
L.; dragonroot; Indian turnip).  
Corm used to kill insects. 933.
- Arisaema japonicum* Blume.  
Roots used in Japan as insecticide. 933.
- Arisaema purpureogaleatum* Engl.  
Roots show fairly low toxicity. 837.
- Arisaema speciosum* Mart.  
Used as insecticide in India. 933B.
- Arisaema tortuosum* Schott.  
Roots used as insecticide. 933.
- Arisaema triphyllum* (L.) Schott. (Jack-in-the-pul-  
pit).  
Exts. were not repellent to Japanese beetle. 933B.
- Aristolochia bracteata* Retz.  
In India leaves, freshly bruised and mixed with  
castor oil, were considered a valuable remedy in  
obstinate cases of itch; natives squeezed juice into  
wounds to kill worms. 933B.
- Aristolochia brasiliensis* Mast.  
Insects visiting this species are killed. 933.
- Aristolochia coccinea* Mast.  
Insects visiting this species are killed. 933.
- Aristolochia elegans* Mast.  
Insects visiting this species are killed. 933.
- Aristolochia grandiflora* Sw.  
Used as fish poison; bark and seeds T cabbage  
butterflies. 933B.
- Aristolochia indica* L.  
Aleh. exts. 100% T following caterpillars: *Prodenia*  
*litura*, 5% ext. of leaves, *Euprotis fraterna*, a 3%  
ext. of leaves, stems, or fruit; 20% water suspension  
of powdered leaves and stems 48% T nymphs of  
mango hopper. 933B.
- Aristolochia maxima* L.  
Used as fish poison; bark and seeds T cabbage  
butterflies. 933B.
- Aristolochia reticulata* L. (Texas snakeroot).  
Acetone ext. of root T mosquito larvae. 645.
- Aristolochia rotunda* L. (Round-rooted birthwort).  
In India roots were used in treatment of itch and  
lice. 933B.
- Aristolochia serpentaria* L. (Virginia snakeroot).  
Acetone ext. of root T mosquito larvae. 645.
- Armoracia lapathifolia*. (*A. rusticana* Gaertn.; *Rorippa*  
*armoracia*; *Radicula armoracia* (L.) Robinson; horse-  
radish).  
Oil is repellent to oriental cockroach; exts. were not  
repellent to Japanese beetle; acetone ext. of root NT  
mosquito larvae. 645, 933B.

- Arnica alpina* (L.) Olin and Ladau.  
Exts. were not repellent to Japanese beetle. 933B.
- Arnica montana* L.  
Acetone ext. of flowers NT mosquito larvae. 645.
- Arrow-urum. Virginia, see *Peltandra virginica*.
- Arrowwood, see *Viburnum dentatum*.
- Artabotrys suaveolens* Blume.  
NT chrysanthemum aphid. 933B.
- Artemisia abrotanum* L. (Old man; southernwood).  
Acetone ext. of leaves, stems, and flowers NT mosquito larvae. 643A, 645.
- Artemisia absinthium* L. (*Absinthium vulgare* Lam.; common wormwood).  
Acetone ext. of leaves, stems, and flower heads T mosquito larvae; leaf ext. 15% T mosquito larvae; oil T *Lucilia cupripes* larvae; T as mothproofing agent. 188P, 643A, 645, 849, 933, 1175.
- Artemisia dracunculoides* Pursh.  
Ext. was not repellent to Japanese beetle. 933B.
- Artemisia pauciflora*. (Levant wormseed).  
Oil MT oriental cockroach; santonin (100 p.p.m.), derived from this species, 10% T mosquito larvae. 933B.
- Artemisia sacrorum* Ledeb. (Russian tarragon).  
Acetone ext. of leaves and stem 15% T mosquito larvae. 643A.
- Artemisia tridentata* Nutt. (Sagebrush).  
Cold and hot water exts. NT silkworm, webworm, potato beetle larvae, rose aphids, and nasturtium aphids, but slowly killed bees. 933.
- Artemisia vulgaris* L. (Mugwort).  
Acetone ext. of tops and seeds T mosquito larvae. 645.
- Artocarpus heterophyllus*. (*A. integra* (Thunb.) Merrill; *A. integrifolius* L. f.; Indian jack tree). Juice of root mixed with pulp of fruit and some sugar was made into plaster and applied to obstinate herpes. 933B.
- Arum dracontium*, see *Arisaema dracontium*.
- Arum dracontium*, see *Dracunculus vulgaris*.
- Arum toxicum*, see *Saururus coccineus*.
- Arum viviparum*, see *Rumex crispus*.
- Asafetida, see *Ferula assafoetida*.
- Asagracea officinalis*, see *Schoenocaulon officinale*.
- Asarum canadense* L. (Canada snake-root).  
Water ext. of button 10% T mosquito larvae. 643A.
- Asclepias acida*, see *Sarcostemma brevistigma*.
- Asclepias bulbifera*, see *A. incarnata*.
- Asclepias curassavica* L. (Bloodflower).  
Indians of southern Mexico sweep the floor and walls of their huts with this species and they are not troubled with fleas. 933.
- Asclepias incarnata* L. var. of *A. bulbifera* (Ehrh.) Pers.  
Exts. were not repellent to Japanese beetle. 933B.
- Asclepias rosea*, see *Oxystelma esculentum*.
- Asclepias syriaca* L. (Milkweed).  
Acetone ext. of stems NT mosquito larvae. 645.
- Asclepias tuberosa* L. (Butterflyweed; pleurisy).  
Acetone and water ext. of root NT mosquito larvae. 643A, 933.
- Ascho, see *Pieris japonica*.
- Asemi, see *Pieris japonica*.
- Ash, American mountain, see *Sorbus americana*.
- Ash, common prickly, see *Zanthoxylum americanum*.
- Ash, hirculeclub prickly, see *Zanthoxylum clavaherculis*.
- Ash, wafer, see *Ptelea trifoliata*.
- Ash, white, see *Fraxinus americana*.
- Asimina* sp. (Papaw).  
Of no value as mosquito repellent. 93.
- Asparagus officinalis* L. (*Asparagus*).  
Used as dust NT codling moth larvae. 933B.
- Asperula odorata* L. (Sweet woodruff).  
Acetone ext. of leaves and stems NT mosquito larvae. 645.
- Aspidium filix-mas*, see *Dryopteris filix-mas*.
- Aspidosperma sessiliflorum* Allen.  
Leaves and fruit used as fish poison. 795.
- Aster, golden, see *Chrysopsis mariana*.
- Aster lynosyris*, see *Linosyris vulgaris*.
- Aster novae-angliae* L. (New England aster).  
Exts. from fresh leaves and flowers were more or less repellent to Japanese beetle. 933B.
- Aster paniculatus* Lam.  
Exts. were not repellent to Japanese beetle. 933B.
- Aster trifolium* L.  
Flowers NT flies. 933, 933B.
- Aster, whitetop-, see *Sericocarpus asteroides*.
- Astragalus gummifer* Lahill.  
Tragacanth gum, with oil, unstable as emulsifier. 833B.
- Astragalus* spp. (Locoweeds).  
Poisonous to honeybees. 933B.
- Attractylis ovata* Thunberg.  
Used in China for fumigating grain stores. 933B.
- Atropa belladonna* L. (Belladonna).  
Alch. ext. and decoction of leaves NT cotton caterpillars. 933.
- Atropa physalodes*, see *Nicandra physalodes*.
- Atropa* spp.  
T clothes moth. 517P, 1175.
- Aucklandia costus*, see *Saussurea lappa*.
- Aureolaria pedicularia* (L.) Raf. (Gerardia).  
Exts. of leaves and flowers were repellent to Japanese beetle. 933B.
- Aureolaria virginica* (L.) Pennell. (*Dasyntoma flava*).  
Plant was reputed to prevent attacks of flies on horses. 933, 933B.
- Azadirachta indica*, see *Melia azadirachta*.
- Azaleumum*, see *Chrysanthemum* sp.
- Azalea nudiflora* L. (Pinxterbloom).  
Exts. were not repellent to Japanese beetle. 933B.
- Azedarach commelini*, see *Melia azedarach*.
- Azedarach deleteria*, see *Melia azadirachta*.
- Azedarach odoratum*, see *Melia azedarach*.
- Azolla caroliniana* Willd.  
Recommended in Austria as good plant to raise in stagnant waters to prevent development of mosquitoes. 933B.
- Azolla* sp.  
When grown in water where mosquitoes breed, check the breeding by preventing larvae from getting air. 933.
- Babchi, see *Psoralea corylifolia*.
- Babool tree, see *Acacia nilotica*.
- Babcooter, see *Exocoecis agallocha*.
- Baccharis floribunda* H. B. K. (Niquitau).  
Niquitau used in Venezuela for killing insects. (Niquitau may not be identical with niquitau.) 933B.
- Baccharis sarothroides* Gray. (Broom baccharis).  
Ext. of seed NT mosquito larvae. 643A.
- Baileya multiradiata*. (Desert bailey).  
Acetone and water ext. of flowers NT mosquito larvae. 643A.
- Balanites roxburghii* Planch.  
Used in India as fish poison and as insecticide; bark powder gave best results against aphids; exts. of different parts of plants with methyl alch., chloroform, ether, etc., were about 10 times as toxic to insects as were crude powders; 5% alch. ext. of stem bark 70% T adult grasshoppers and 6% ext. 80% T caterpillars. 933B.
- Balbec.  
Water ext. T silkworms. 933.
- Balekatu.  
7.5% Alch. ext. of creeper 100% T adult grasshoppers, and 3% ext. 70% T one species caterpillars and 100% T to another. 933B.
- Balm, citronella horse, see *Collinsonia canadensis*.
- Balm, common, see *Melissa officinalis*.
- Balm-of-Gilead, see *Populus candicans*.
- Balm, spotted bee, see *Monarda punctata*.
- Balsam, garden, see *Impatiens balsamina*.
- Balsam-pear, see *Momordica charantia*.
- Balsamodendron playfairii* Hook. f.  
Opaque, whitish gum resin, used by Arabs and Somalis as soap to kill lice. 933B.
- Bamboo brier, see *Smilax bona-nox*.
- Bambusa arundinacea* Retz. (*B. orientalis* Nees; spiny bamboo).  
In India the most efficacious application for dislodgment of worms in ulcers was a poultice made by pounding the young shoots of bamboo. 933B.
- Banana, see *Musa sapientum*.
- Bandeiraea simplicifolia* Benth. (Kagayaw).  
Leaves used to kill lice in hen houses in Gold Coast, Africa. 933B.

- Baptisia tinctoria* (L.) R. Br. (*Sophora tinctoria* L.; yellow wild indigo).  
Plants placed in harness keep flies from horses; alch. ext. and decoction NT cotton caterpillars; exts. were not repellent to Japanese beetle; acetone ext. of root T mosquito larvae. 645, 933, 933B.
- Barbarea vulgaris* R. Br. (*Campe barbarea* (L.) W. F. Wight; bitter wintercress).  
Ext. were not repellent to Japanese beetle. 933B.
- Barberry, see *Berberis vulgaris* L. var. *atropurpurea* Reg., and *Berberis* sp.
- Barbiera pinnata* (Pers.) Baill.  
Branches used as fish poison. 795.
- Barosma betulina* (Thunb.) Barth. and Wendl. (Buchu).  
Ext. were not repellent to Japanese beetle. 933B.
- Barringtonia scutangula* (L.) Gaertn.  
Juice of leaves mixed with oil was made into an ointment for scabies. 933B.
- Barringtonia asiatica* Kurz. (*B. speciosa* Forst.).  
Alch. exts. of bark of these fish poison trees from Australia were NT bean aphid. 933B.
- Barringtonia careya* F. Muell. (*Careya australis* F. Muell.).  
Alch. exts. of bark of this fish poison tree from Australia were NT bean aphid. 933B.
- Barringtonia excelsa* Blume. (*Chydenanthus excelsus* Mayr.).  
Water exts. of seed kernels NT caterpillars. 933B.
- Barringtonia racemosa* (L.) Roxb.  
Used in India as fish poison and as insecticide; 2.5 and a 2% alch. ext. of bark 100 and 98% T aphids, while a 0.5% of 40% nicotine sulfate soln. 95% T; sample of bark from Kenya NT bean aphid. 933B.
- Barringtonia speciosa*, see *Barringtonia asiatica*.
- Barringtonia* spp.  
5% Water ext. of bark of this Malayan fish poison tree ST moth larvae; plants may be of value as insecticides in Solomon Islands, seeds included. 933B.
- Basil, see *Ocimum viride*.
- Basil, common, see *Ocimum basilicum*.
- Basil, sacred, see *Ocimum sanctum*.
- Basil, sweet, see *Ocimum basilicum*.
- Bassia butyracea*, see *Madhuca butyracea*.
- Bassia latifolia*, see *Madhuca latifolia*.
- Bassia longifolia*, see *Madhuca longifolia*.
- Bauhinia guianensis* Aubl.  
Branches used as fish poison. 795.
- Bayberry, northern, see *Myrica pensylvanica*.
- Bayrum tree, see *Pimenta racemosa*.
- Beads, prayer, see *Abrus precatorius*.
- Bean, buck, see *Menyanthes trifoliata*.
- Bean calabar, see *Physostigma venenosum*.
- Bean, carob, see *Ceratonia siliqua*.
- Bean, crab's eye, see *Abrus precatorius*.
- Bean, tonka, see *Dipteryx odorata*.
- Bean, vanilla, see *Vanilla planifolia*.
- Beau, yam, see *Pachyrhizus erosus*.
- Bearberry, see *Arctostaphylos uva-ursi*.
- Bedstraw, see *Galium aparine*.
- Bedstraw, fragrant, see *Galium triflorum*.
- Beech, American, see *Fagus grandifolia*.
- Bect, sugar, see *Beta vulgaris*.
- Belladonna, see *Atropa belladonna*.
- Bennie, see *Sesamum indicum*.
- (*Benthmantha* is synonymous with *Cracca* and probably with *Tephrosia*).
- Benthmantha caribaea* Benth.  
Reported to contain rotenone. 759.
- Benthmantha mollis* Benth.  
Reported to contain rotenone. 759.
- Benthmantha ochroleuca* Benth.  
Reported to contain rotenone. 759.
- Benzoin asiatica*, see *Lindera benzoin*.
- Benzoin gum*, see *Styrax benzoin*.
- Berberis aquifolium*, see *Mahonia aquifolium*.
- Berberis aristata* DC.  
Bark used in India as fish poison and as insecticide. 933B.
- Berberis vulgaris* L. var. *atropurpurea* Reg.  
Acetone ext. of root and stem 10% T mosquito larvae. 643A.
- Berberis* sp.  
Acetone ext. of root 70% T mosquito larvae. 643A.
- Berberia, see *Milletia ferruginea*.
- Bergamot, oil of, see *Citrus bergamia*.
- Beta vulgaris* L. (Sugar beet).  
Betaine hydrochloride NT as mothproofing agent; betaine fluosulfonate used for preserving textile fabrics. 933B.
- Betony, see *Lycopus virginicus*.
- Betony, common, see *Stachys officinalis*.
- Betula lenta* L. (Sweet birch).  
Water ext. of bark 10% T mosquito larvae. 643A.
- Betula pendula* L. (*B. alba* L.; white birch).  
Oil of betulae T *Lucilia cuprina* larvae; in chemotropic tests in field with oil of birch tar negative results were obtained. 849, 933B.
- Bibo, see *Holigarna smothiana*.
- Bignonia radicans*, see *Campsis radicans*.
- Bitumona, see *Gardenia campanulata*.
- Bikukula canadensis*, see *Dicentra canadensis*.
- Birch, sweet, see *Betula lenta*.
- Birch, white, see *Betula pendula*.
- Birthwort, round-rooted, see *Aristolochia rotunda*.
- Bitter apple, see *Citrullus colocynthis*.
- Bitter cucumber, see *Citrullus colocynthis*.
- Bitter extract.  
T as mothproofing agent. 1176, 1209P.
- Bitter gourd, see *Citrullus colocynthis*.
- Bittersweet, American, see *Celastrus scandens*.
- Bitter tree, see *Celastrus angulatus*.
- Bitterweed, see *Helenium tenuifolium*.
- Bitterwood, see *Picrasma excelsa*.
- Bixa orellana* L. (Anatto tree).  
Seed pulp used by American Indians to paint their bodies for full dress, and as preventative for mosquito bites. 933B.
- Black-boy tree, see *Xanthorrhoea hastilis*.
- Black haw, see *Viburnum prunifolium*.
- Blackthorn, see *Prunus spinosa*.
- Blessed thistle, see *Calceus benedictus*.
- Blinding tree, see *Excoecaria agallocha*.
- Bloodflower, see *Asclepias curassavica*.
- Bloodroot, see *Sanguinaria canadensis*.
- Blueberry, see *Vaccinium* sp.
- Blue-eyed grass, see *Sisyrinchium* sp.
- Blumea aurita* DC. (Planchura).  
This plant has been suggested for driving away insects in the Gold Coast, Africa, and as a possible source of insect powder. 933B.
- Blumea lacera* (Roxb.) DC. (Numurdi).  
Natives of Konan, near Bombay, used plant to drive away fleas and other insects; it was suggested as possible source of insect powder. 933B.
- Bocconia cordata*, see *Macleania cordata*.
- Bocconia frutescens* L.  
Juice effective against injurious insects and ticks. 933B.
- Boeninghausenia albiflora* (Hook.) Heynhold.  
Ext. applied as sprays against adult mosquitoes were much inferior to standard mosquitocide. 933B.
- Boerhavia diffusa* L.  
Used in Gold Coast to keep away lice, was probably an instance of sympathetic magic. 933B.
- Boldo, see *Peumus boldus*.
- Bolemba, see *Ostryoderris gabonica*.
- Boneset, see *Eupatorium perfoliatum*.
- Borago officinalis* L. (Common borage).  
Ext. were not repellent to Japanese beetle. 933B.
- Borassus flabellifer* L.  
Used in India to relieve itch. 933B.
- Boswellia carteri* Birdw. (Frankincense).  
In India burned in houses to keep away mosquitoes; unstable as emulsifier. 933B.
- Boswellia serrata* Roxb.  
Used as insecticide in Sind, India. 933B.
- Bovista giganteum*, see *Calvatia gigantea*.
- Bowdichia virailloides* H. B. K.  
Used as fish poison in northern South America and Brazil. 795.
- Box tree, see *Buxus sempervirens*.
- Bracken, see *Pteridium aquilinum*; P. latiusculum.
- Bramia monnieri* (L.) Pennell. (*Herpestis monieria* H. B. K.).  
Ext. applied as sprays against adult mosquitoes were much inferior to standard mosquitocide. 933B.

- Brassica hirta.** (*Sinapis alba*; yellow English mustard).
- Acetone** ext. of seeds T mosquito larvae. 645.
- Brassica juncea** (L.) Coss.
- Exts. were not repellent to Japanese beetle. 933B.
- Brassica nigra** (L.) Koch. (Black mustard).
- Water exts. of seed HT mosquito larvae; exts. were not repellent to Japanese beetle. 643A, 933B.
- Brassica oleracea capitata** L. (Cabbage, cultivated).
- Exts. were not repellent to Japanese beetle. 933B.
- Brassica** spp. (Mustard, rape, etc.).
- Mustard oil derived from seeds of various sp. of *Brassica* (*Sinapis*), Chinese colza oil from *B. campestris* L., and rape oil probably from *B. napus* L.; oils used in emulsions, as insecticides, and occasionally as repellents; ground mustard and synthetic mustard oil were both T *Agriotes mancus*; oil T *Lucilia cuprina* larvae. 849, 933B, 1396.
- Brauneria** sp. (*Echinacea*).
- Acetone ext. of root 100% T mosquito larvae. 643A.
- Breadfruit tree, see *Pandanus tectorius*.
- Brook euonymus, see *Euonymus americanus*.
- Broom, see *Genista* sp.
- Broom, European, see *Genista germanica*.
- Broom, Scotch, see *Cytisus scoparius*.
- Bryonia alba** L. (White bryony).
- Root and other parts used against aphids. 933.
- Bryony, black, see *Tamus communis*.
- Buchanania latifolia** Roxb.
- In India this plant was believed to cure itch. 933B.
- Buchu, see *Barosma betulina*.
- Buckbean, see *Menyanthes trifoliata*.
- Buckeye, California, see *Aesculus californica*.
- Buckeye, dwarf, see *Aesculus pavia alba*.
- Buckeye, Ohio, see *Aesculus glabra*.
- Buckeye, red, see *Aesculus pavia*.
- Buckthorn, alder, see *Rhamnus frangula*.
- Buckthorn, common, see *Rhamnus cathartica*.
- Buckwheat, see *Fagopyrum sagittatum*.
- Buddleia brasiliensis** Jacq.
- Used as fish poison. 795.
- Buddleia lindleyana** Fortune.
- Gave low mortality to several species of insects. 837.
- Bugbane, columb, see *Cimicifuga racemosa*.
- Bugbane, feild, see *Cimicifuga foetida*.
- Bugleweed, see *Lycopus virginicus*.
- Bunchflower, see *Melanthium virginicum*.
- Burdock, see *Arcium* sp.
- Burdock, common, see *Arcium minus*.
- Burningbush, European, see *Euonymus europaeus*.
- Burreed, see *Sparganium americanum*.
- Bursa bursa-pastoris**, see *Capsella bursa-pastoris*.
- Bursera penicillata**. (Oil of linaloe or lignaloe Mexican wood).
- T *Lucilia cuprina* larvae. 849.
- Butea monosperma** (Lam.) Taub. (*B. frondosa* Roxb.; buten; kino gum).
- In India seeds used for cure of dhoobies itch and as insecticide; with oils, a stable emulsifier. 933B.
- Butter-and-eggs, see *Linaria vulgaris*.
- Buttercup, see *Ranunculus septentrionalis*.
- Butterflyweel, see *Asclepias tuberosa*.
- Butternut, see *Juglans cinerea*.
- Butterwort, see *Pinguicula vulgaris*.
- Buttonbush, see *Cephalanthus occidentalis*.
- Buxus sempervirens** L. (Box tree).
- Exts. from leaves were more or less effective repellents against Japanese beetle. 933B.
- Byrsonima crassifolia** (L.) DC.
- Used as fish poison. 795.
- Cabbage, cultivated, see *Brassica oleracea capitata*.
- Cabbage, skunk, see *Symlocarpus foetidus*.
- Carao, see *Theobroma cacao*.
- Caehou, see *Acacia catechu*.
- Caeculia coccinea** Aubl.
- Exts. of shells and kernels of fruit from British Guiana NT bean aphid. 933B.
- Cactus, see *Cereus* sp.
- Cade, oil of, see *Juniperus oxycedrus*.
- Caesalpinia coriaria** Willd. (Divi-divi).
- Commercial ext. was effective repellent against Japanese beetle. 933B.
- Cajanus indicus** Spreng.
- Of no value as insecticide. 933B.
- Cajuput, oil of, see *Melaleuca leucadendron*.
- Caladium bicolor** (Ait.) Vent.
- Powdered leaves used as insecticide. 933.
- Calamus, see *Acorus calamus*.
- Callilepis laureola** DC.
- Powdered roots used as insecticide. 933.
- Callitris quadrivalvis** Vent. (Sandarae tree).
- With oils, unstable as emulsifier. 933B.
- Calophyllum inophyllum** L. (Alexandrian laurel).
- Seeds or berries contained nearly 60% of a fixed oil, which was used for medicinal purposes, being considered cure for itch; in India fixed oil from seed kernels used to cure scabies; exts. of bark used as fish poison in East Africa, little effect on citrus aphids. 933B.
- Calophyllum spectabile** Willd. (Kulit bentangor).
- 5% Water ext. of bark NT larvae of *Paras herbi-fera*, similar ext. of roots T 1/5 of larvae tested. 933B.
- Calophyllum wightianum** Wall. (*C. apurium* Chois.).
- In India oil from seeds used in cutaneous affections, and an infusion mixed with honey used for scabies. 933B.
- Calopogonium canerulum** Hermal.
- Seeds (hypocotyl) reported to contain rotenone. 759.
- Calopogonium orthocarpum** Urb.
- Seeds (hypocotyl) reported to contain rotenone. 759.
- Calopogonium vellutium** Benth. (Catinga de macaco).
- Alch. ext. of this fish poison plant used in Brazil against lice and ticks. 933B.
- Calotropis gigantea** (Willd.) R. Cr.
- Plant used as insect deterrent in India; 5% alch. ext. of stems 55% T caterpillars. 933B.
- Calotropis procera** Ait. (Swallowwort).
- Water exts., macerated juices, and dusts of leaves NT citrus psylla, aphids, and lucerne weevil grubs; leaves T fowl lice. 933B.
- Caltha palustris** L. (Marsh marigold).
- Exts. were not repellent to Japanese beetle. 933B.
- Calvatia gigantea** (Pers.) Cunningham. (*Lycoperdon bovista* L.; *L. giganteum* Batsch.; *L. caelatum* Fries.; *Bovista giganteum* Nees; giant puffball).
- Used in its mature condition as styptic and for stupefying bees; spores may be used in same way as flowers of sulfur; powder T insects. 933, 933B.
- Camellia sinensis** (L.) Ktze. (*Thea sinensis* L.; tea).
- Addition of oil of teased increased toxicity of derris to squash bug. 933B.
- Camellia** spp.
- In China the toxic property of seeds of camellia was due entirely to a saponin, which was about one-fiftieth as toxic as rotenone to goldfish; larvae of a sawfly, tent caterpillars, and silkworms refused to eat leaves with the saponin on them. 933B.
- Camomile, common, see *Anthemis nobilis*.
- Camomile, coin, see *Anthemis arvensis*.
- Camomile, German false, see *Matricaria chamomilla*.
- Camomile, scentless false, see *Matricaria inodora*.
- Camomile, yellow, see *Anthemis tinctoria*.
- Campe barbarica*, see *Barbarea vulgaris*.
- Camphor tree, see *Cinnamomum camphora*.
- Camphor, oil of, see *Cinnamomum camphora*.
- Campsis radicans** (L.) Seem. (*Bignonia radicans* L.; trumpetreeper).
- Exts. were not repellent to Japanese beetle. 933B.
- Camptosema? pinnatum** Benth. (*Picidia erythrina* Vell., not L.).
- Doubtful species, not known certainly as fish poison in Brazil. 795.
- Cananga odorata**. (Cananga; ylangylang).
- Oil T *Lucilia cuprina* larvae. 849.
- Canella winterana** Gaertn. (*C. alba* Murr.; esnella; wild cinnamon).
- Baravol, made from roots, gave fair results in control of ox warbles in lowland cattle of South America; exts. were not repellent to Japanese beetle. 933B.
- Cannabis sativa** L. (Common hemp).
- Combings or leaves, scattered among bags and heaps of grain in India. T weevils; 2% ext. of hemp in sugar soln. NT housefly; commercial exts. of this species, called *Cannabis indica*, NT bean aphid; exts. were not repellent to Japanese beetle; alch. solns. of hemp constituents used for moth-proofing wool; exts. applied as sprays against adult mos-

- quitoes were much inferior to standard mosquito-cide. 933B, 1175, 1357P.
- Canna** sp.  
Stems and leaves contain effective principle which will give as satisfactory results as tobacco in greenhouse fumigation. 933B.
- Caper**, common, see *Capparis spinosa*.
- Capparis aphylla** Roth. (Dela).  
Water exts., macerated juices, and dusts of leaves had little effect on citrus psylla, aphids, and lucerne weevil grubs in India; used in Sind, India as insecticide. 933B.
- Capparis spinosa** L. (*C. murrayana* Graham.; common caper). In India juices of fresh plant was dropped into the human ear to kill worms. 933B.
- Cappirola dactylon**, see *Cynodon dactylon*.
- Cassella bursa-pastoris** (L.) Medic. (*Bursa bursa-pastoris* (L.) Britton; shepherd's-purse).  
Exts. of entire plant were repellent to Japanese beetle; acetone ext. whole plant NT mosquito larvae. 645, 933B.
- Capsicum frutescens** L. (*C. annuum*; African pepper; chillies; bird pepper; cayenne pepper; common red-pepper).  
Acetone ext. of fruit T mosquito larvae; NT bed-bug, cockroach, and dog flea. 645, 933.
- Carapa fasciculata** Camb.  
This species furnished one of resins used as insecticide and as cure for itch. 933B.
- Carapa guianensis** Aubl. (Andiroba or carapa tree; *Xylocarpus carapa* Spreng.).  
Decoction used as insecticide. 933.
- Carapa procera** DC. (Crabwood).  
Seeds contain large percentage of crab oil which is used as insecticide in Gold Coast, Africa. 933B.
- Caraway**, oil of, see *Carum carvi*.
- Cardamom**, oil of, see *Elettaria cardamomum*.
- Cardinalflower**, see *Lobelia cardinalis*.
- Careya australis**, see *Barringtonia careya*.
- Carissa carandas** L. (*C. congesta* Wight.).  
In India used to keep off flies, and when pounded with lime juice and camphor as remedy for itch. 933B.
- Carrageen**, see *Chondrus crispus*.
- Carrot**, wild, see *Daucus carota*.
- Carthamus tinctorius** L. (Safflower).  
In Bengal oil was considered to be valuable remedy for itch. 933B.
- Carum bulbocastanum** (L.) Koch.  
Used in India to protect clothes and skins against ravages of insects. 933B.
- Carum carvi** L. (Caraway).  
Ext. of seeds T ants and 90% T mosquito larvae; oil T *Lucilia cuprina* larvae. 127, 643A, 645, 649.
- Carvone**. (Oil of carvol).  
Oil T *Lucilia cuprina* larvae. 849.
- Carya glabra** Spach. (*C. porcina* Nutt.; *Juglans glabra* Mill.; *Hicoria glabra* (Mill.) Britton; pignut).  
Horses washed with infusion of leaves in water prevents the annoyance of flies. 933.
- Carya** sp. (Hickory).  
Exts. from fresh leaves were repellent to Japanese beetle. 933B.
- Caryocarp amydaliferum** Mutis.  
Used as fish poison. 795.
- Caryocarp glabrum** (Aubl.) Pers.  
Used as fish poison. 795.
- Caryophyllus aromaticus**, see *Syzygium aromaticum*.
- Cascara sagrada**, see *Rhamnus purshiana*.
- Cascarilla**, see *Croton eluteria*.
- Cashew nut oil**, see *Anacardium occidentale*.
- Cassava**, sweet, see *Manihot dulcis*.
- Cassia acutifolia**. (Alexandria senna; senna).  
Acetone ext. of pods T mosquito larvae. 645.
- Cassia alata** L.  
Branches used as fish poison. 795.
- Cassia angustifolia** Vahl. (Congo senna).  
Acetone ext. of leaves and pods T mosquito larvae; exts. applied as sprays against adult mosquitoes were much inferior to standard mosquitoicide. 645, 933B.
- Cassia bacillaris** L. f.  
Sprays containing exts. of leaves and seeds ST citrus aphids. 933B.
- Cassia biflora** L.  
Used as fish poison. 795.
- Cassia chamaecrista**, see *C. fasciculata*.
- Cassia didymobotrya** Fres.  
Used as fish poison; seeds and leaves MT citrus aphids; an amorphous solid from alch. exts. was 100% T aphids and one from oily resin 37.5% T; exts. of roots, leaves, and seeds ST bean aphid. 933B.
- Cassia fasciculata** Michx. (*C. chamaecrista* L.; partridge-pea).  
Exts. were not repellent to Japanese beetle. 933B.
- Cassia fistula** L.  
Alch. exts. and water suspensions NT caterpillars. 933B.
- Cassia**, foetid, see *Cassia tora*.
- Cassia herbecarpa** Fern. (*C. marilandica* Am. Auth.; wild senna).  
Exts. were not repellent to Japanese beetle. 933B.
- Cassia hirsuta** L.  
Root used as fish poison. 795.
- Cassia lavigata** Willd.  
Sprays containing exts. of leaves and seeds had slight toxic effect on citrus aphids. 933B.
- Cassia marilandica**, see *Cassia herbecarpa*.
- Cassia multijuga** Rich.  
Sprays containing exts. of leaves and seeds ST citrus aphids. 933B.
- Cassia occidentalis** L. (Coffee senna).  
Alch. ext. and decoction ST cotton caterpillars, but NT cockroaches. 933.
- Cassia**, oil of, see *Cinnamomum cassia*.
- Cassia sophora** L. (*Senna sophora* Roxb.; *S. purpurea* Roxb.).  
In India both powdered seeds made into plaster and an ointment made of bruised seeds and leaves with sulfur were used for itch; sap good specific for dhobie itch. 933B.
- Cassia stipulacea** Ait.  
Leaves used as insecticide. 933.
- Cassia tora** L. (Foetid cassia).  
In India leaves and seeds remedy for itch. 933B.
- Cassia** sp.  
NT cockroaches. 933B.
- Cassytha filiformis** L.  
Used as insecticide in India. 933B.
- Castanea dentata** (Marsh.) Bockh. (American chestnut).  
Commercial ext. effective repellent against Japanese beetle. 933B.
- Castorbean plant**, see *Ricinus communis*.
- Castor oil plant**, see *Ricinus communis*.
- Catalpa bignonioides** Walt. (Catalpa).  
Juice from leaves and beans ST bees. 933.
- Catalpa ovata** Don.  
Acetone ext. of leaves 10% T mosquito larvae. 643A.
- Catchfly**, sleepy, see *Silene antirrhina*.
- Catechu**, see *Acacia catechu*.
- Catinga de macaco**, see *Calopogonium vellutatum*.
- Catnip** see *Nepeta cataria*.
- Cattail**, common, see *Typha latifolia*.
- Cattail**, narrowleaf, see *Typha angustifolia*.
- Caulophyllum thalictroides** (L.) Michx. (Blue cohosh).  
Exts. were not repellent to Japanese beetle. 933B.
- Causia** and *Cebolleja*.  
NT winged forms of fruit maggots. 933.
- Ceanothus americanus** L. (Jersey-tea).  
Exts. from leaves and flowers were repellent to Japanese beetle. 933B.
- Cedar**, ground, see *Lycopodium complanatum*.
- Cedar**, red, see *Juniperus virginiana*.
- Cedar**, white, see *Chamaecyparis thyoides*.
- Cedar wood oil**, see *Juniperus virginiana*.
- Cedro oil**, see *Citrus medica* var. *limonium*.
- Celandine**, see *Chelidonium majus*.
- Celastrus angulatus** Max. (Bitter tree).  
Powdered leaves and root bark T cabbage beetle; in field tests against adults of another cabbage leaf beetle, powdered root bark 94% and an alch. ext. 91% T; powdered leaves 92% and an alch. ext. of leaves, 84% T; ground bark used as dust or spray against garden insects in China; exts. used as contact sprays, NT aphids. 933B.
- Celastrus montana**, see *Gymnosporia montana*.

- Celastrus scandens* L. (American bittersweet).  
Exts. were not repellent to Japanese beetle. 933B.
- Celastrus* sp.  
No kill with several insects, except codling moth. 837.
- Celery**, oil of, see *Apium graveolens*.
- Celtis cinnamomea* Lindl.  
This plant, scraped fine and mixed with lemon juice, was used in India to anoint body to cure itch. 933B.
- Centaureum umbellatum* Gilib. (Centaury gentian).  
Decoction of whole plant T lice and cured the itch. 933B.
- Centella asiatica* (L.) Urban.  
ST first instar larvae of Mexican bean beetle and codling moth. 837.
- Centipeda orbicularis* Lour.  
Used in Sind, India as insecticide. 933B.
- Centrosema plumieri* (Tur.) Benth.  
Bark used as fish poison. 795.
- Century plant, see *Agave americana*.
- Cephalis acuminata*. (Ipocae).  
Acetone ext. of root NT mosquito larvae. 645.
- Cephalis incucumna* (Brot.) A. Rich. (*Psychotria speciosa* Stokes).  
Exts. applied as sprays against adult mosquitoes much inferior to standard mosquitoicide. 933B.
- Cephalanthus occidentalis* L. (Buttonbush).  
Exts. were not repellent to Japanese beetle. 933B.
- Cerantia siliqua* L. (Algarroba; carob bean).  
Used in Venezuela for killing insects. 933B.
- Ceratotheca integribracteata* Engl.  
Decoction used in West Africa as insecticide. 933.
- Cereus* sp. (Cactus).  
Leaves, made into paste and spread over surface of water, kill larvae of mosquitoes by asphyxiation. 933.
- Cestrum lavigatum* Schlect.  
Used as fish poison. 795.
- Cetraria islandica*. (Iceland moss).  
Acetone ext. of whole plant NT mosquito larvae. 645.
- Chamaecyparis thoides* (L.) B. S. P. (White cedar).  
Exts. were not repellent to Japanese beetle. 933B.
- Chamomile*, Hungarian, see *Matricaria chamomilla*.
- Chamomilla nobilis*, see *Anthemis nobilis*.
- Chamomilla officinalis*, see *Matricaria chamomilla*.
- Chamomilla vulgaris*, see *Matricaria chamomilla*.
- Chara fetida*.  
T mosquito larvae. 933B.
- Chara fragilis* Desv.  
T mosquito larvae; alch. exts. and water suspensions NT caterpillars. 933B.
- Charcoal** (kind not stated).  
NT as dust against roaches and NT as fumigant against clothes moths. 933, 1268.
- Chaste-tree, hinc, see *Vitex agnuscastus*.
- Chaste tree, negundo, see *Vitex negundo*.
- Chauliogra*, see *Gynocaris odorata*.
- Chelidonium majus* L. (Celandine; swallowwort).  
Decoction 4% T *Malacosoma neustria* and 44% T *Vonessa urticae*; acetone ext. NT mosquito larvae. 645, 933.
- Chelone glabra* L. (Turtlehead).  
Exts. from dried leaves were more or less repellent to Japanese beetle. 933B.
- Chenopodium ambrosioides* L. (*C. anthelminticum* L.; *C. ambrosioides anthelminticum* A. Gray; American wormseed).  
Water ext. from dried leaves and seeds NT bees; decoction, mixed with soap, from leaves, stems, and seeds NT potato aphids and nasturtium aphids; powder used as dust NT tent caterpillars, but T roaches, and used as stomach poison, NT grasshoppers; oil 99-80% T *Lucilia cuprina* larvae, 35% T mosquito larvae at 11 p.m., and 90% T at 25 p.m. 643A, 849, 933.
- Cherimoya*, see *Annona cherimola*.
- Cherry, cultivated, see *Prunus* sp.
- Cherry, out-leaved ground, see *Physalis angulata*.
- Cherry, Peruvian ground, see *Nicandra physalodes*.
- Cherry, wild virgin green, see *Prunus serotina*.
- Chervil, European, see *Anthriscus vulgaris*.
- Chestnut, American, see *Castanea dentata*.
- Chestnut, horse, see *Aesculus hippocastanum*.
- Chickweed, common, see *Stellaria media*.
- Chicory, see *Cichorium intybus*.
- Chillies, see *Capiscum frutescens*.
- Chilcosan or Chilcosus.  
NT winged forms of fruit maggots. 933.
- Chimaphila umbellata* L. Nutt. (Common pipeisewwa).  
Acetone and water ext. of whole plant NT mosquito larvae. 643A.
- Chinaberry, see *Melia azedarach*.
- Chionanthus virginicus* L. (White fringetree).  
Acetone ext. bark of root 85% T mosquito larvae. 643A.
- Chips of wood, see "Sopilote."
- Chiretta, see *Swertia chirayita*.
- Chive, see *Allium schoenoprasum*.
- Chlorophora tinctoria* (L.) Gaud. (Fustic).  
Commercial ext. was effective repellent against Japanese beetle. 933B.
- Chondrus crispus* (L.) Stack. (Carrageen; Irishmoss; pigwrack; pearl moss; killean; salt rock moss).  
T as mothproofing agent. 756P, 1175.
- Chroosperma muscatolicum*, see *Amianthium muscatolicum*.
- Chrysanthemum achilleae* L. (*Pyrethrum achilleae* DC.).  
Opened flower heads T flies, fleas, and ants. 933.
- Chrysanthemum balsamita*, see *C. majus*.
- Chrysanthemum caucasicum* (Willd.) Pers.  
Insect powder is made from this species, but more reliable authors deny this statement. 933.
- Chrysanthemum chamomilla*, see *Matricaria chamomilla*.
- Chrysanthemum cinerariifolium* (Trev.) Vis. (*Pyrethrum cinerariifolium* Trev.; Dalmatian insect flowers).  
When reduced to powder, all parts of plant are active; powders, used as dusts, T silkworms, flies, potato-beetle, larvae, aphids, grasshoppers, and tent caterpillars; no practical value against bedbugs and cockroaches. 933, 1161.
- Chrysanthemum coccineum* Willd. (*C. roseum* Adam; *Pyrethrum carneum* Bieb.; Persian insect flowers).  
T many species of insects.
- Chrysanthemum coronarium* L. (Crown daisy).  
Flowers NT flies. 933.
- Chrysanthemum corymbosum* L. (*Pyrethrum corymbosum* Scop.).  
NT flies, fleas, and ants. 933.
- Chrysanthemum*, cultivated, see *Chrysanthemum* spp.
- Chrysanthemum frutescens* L. (Marguerite).  
Flowers can be substituted for genuine insect powder. 933.
- Chrysanthemum indicum* L. (Mother chrysanthemum).  
Open and closed flower heads and leaves NT insects tested. 933.
- Chrysanthemum leucanthemum* L. (*Leucanthemum vulgare* Lam.; oxeye daisy).  
NT flies, cotton caterpillars, silkworms, webworms, etc. 933.
- Chrysanthemum majus*. (*C. balsamita* L.; costmary).  
Acetone ext. of leaves and stems T mosquito larvae. 645.
- Chrysanthemum marschallii* Aschers. (*Pyrethrum roseum* Bieb.; eucasian insect flowers).  
Produces genuine insect powder. 933.
- Chrysanthemum*, mother, see *Chrysanthemum indicum*.
- Chrysanthemum myconis* L.  
T dog fleas. 933.
- Chrysanthemum parthenium* (L.) Pers. (*Matricaria parthenium* L.; *Pyrethrum parthenium* J. E. Smith; feverfew).  
Not very effective against insects. 933.
- Chrysanthemum roseum*, see *Chrysanthemum coccineum*.
- Chrysanthemum segetum* L. (*Pyrethrum segetum* Moench; corn-marigold).  
As effective as Persian insect powder, particularly when used as fumigant. 933.
- Chrysanthemum* sp. (*Asaleanum*).  
Acetone ext. of leaves, stems, and flowers T mosquito larvae. 645.
- Chrysanthemum* spp. (Cultivated chrysanthemum).  
Exts. were not repellent to Japanese beetle. 933B.
- Chrysopsis mariana* (L.) Nutt. (Golden aster).  
Exts. from plants not repellent to Japanese beetle. 933B.
- Churimulla**.  
Plant was found in Coorg, India; a 7.5% alch. ext.

- of stems 100% T adult grasshoppers and a 5% ext. 80% T one species of caterpillars, and 100% T to another species; powdered stems dusted upon beetles 100% T. 933B.
- Chydenanthus excelsus*, see *Barringtonia excelsa*.
- Cichorium intybus* L. (Chicory).
- Exts. were not repellent to Japanese beetle. 933B.
- Cicuta maculata* L. (Spotted water hemlock).
- Exts. were not repellent to Japanese beetle. 933B.
- Cimicifuga fetida* L. (Fetid bugbane).
- Root said to be poisonous; used in Siberia to drive away bugs and fleas; used in India as insecticide or repellent. 933B.
- Cimicifuga racemosa* (L.) Nutt. (*C. serpentina* Pursh; cohosh bugbane).
- Water ext. of root 25% T mosquito larvae; powdered roots, used as dust, NT crickets; exts. were not repellent to Japanese beetle. 643A, 933, 933B.
- Cinchona officialis* L. (Cinchona; Peruvian bark).
- Powdered bark MT fly larvae but not entirely efficient; caterpillars fed on plants dipped in 300 cc. of water containing 5 gm. of quinine were not appreciably affected; cinchonine used as dust 36% T codling moth larvae, while quinine alkaloid was only 15.5% T; exts. of dried cinchona bark were not repellent to Japanese beetle; cinchona alkaloïds used as mothproofing agents. 933B.
- Cinchona pubescens* Vahl.
- Powdered bark MT fly larvae but not entirely efficient; used as mothproofing agent. 933B.
- Cinchona succirubra* Pavon.
- Powdered bark gave fairly high percentage of mortality against fly larvae, but not entirely efficient. 933.
- Cinnamomum camphora*. (Camphor tree).
- Oil of camphor 99-80% T *Lucilia cuprina* larvae; wood T clothes moths. 849, 1077, 1137P, 1175, 1176.
- Cinnamomum cassia*. (Cassia or Chinese cinnamon).
- Oil of cassia 19-0% T *Lucilia cuprina* larvae. 849.
- Cinnamomum zeylanicum* Nees. (Cinnamon).
- Oil considered one of best repellents against screw-worm; exts. applied as sprays against adult mosquitoes were much inferior to standard mosquitoicide; acetone ext. of bark T mosquito larvae. 645, 933B.
- Cinnamon, oil of, see *Cinnamomum zeylanicum*.
- Cinnamon-root, see *Insula conyza*.
- Cinnamon, wild, see *Canella winterana*.
- Cinquefoil, silver, see *Potentilla argentea*.
- Cissampelos pareira* L.
- Used as fish poison. 795.
- Citron, see *Citrus medica*.
- Citronella, oil of, see *Cymbopogon nardus*.
- Citrullus colocynthis* (L.) Schrad. (*Cucumis colocynthis* L.; *Colocynthis vulgaris* Schrad.; colocynth; bitter apple, gourd, and cucumber).
- T as mothproofing agent; acetone ext. of fruit NT mosquito larvae; pulp NT bedbugs, cockroaches, clothes moths, chicken lice, and dog fleas. 42, 185P, 645, 1024, 1175, 1176, 1268.
- Citrullus vulgaris*. (Watermelon).
- Acetone ext. of seeds T mosquito larvae. 645.
- Citrus aurantifolia* (Lime).
- Oil 39-20% T *Lucilia cuprina* larvae. 849.
- Citrus bergamia*. (Bergamot orange).
- Oil 59-40% T *Lucilia cuprina* larvae and T codling moth. 849, 1423A.
- Citrus limon*. (Lemon).
- Oil 39-20% T *Lucilia cuprina* larvae. 849.
- Citrus medica* L. (Citron).
- Fruit was put among clothes to keep away moths. 933B.
- Citrus reticulata* HV. (Tangerine orange).
- Oil 50-40% T *Lucilia cuprina* larvae. 849.
- Citrus sinensis* (L.) Osbeck. (Orange).
- Orange poultice recommended in some skin affections, such as psoriasis; oil strongly attractive to oriental cockroach. 933B.
- Citrus* sp. (Also oil of petit-grain).
- Used in Haiti as insecticide against mosquitoes; oil of petit-grain 19-0% T *Lucilia cuprina* larvae. 849, 933B.
- Cladrastis (maackia) amurensis* Benth. (Cladrastis).
- Acetone ext. of root and stem 5% T mosquito larvae. 643A.
- Clausena anisata* Hook. f. (Samanobero).
- In Gold Coast, Africa, plant was hung in houses to keep away mosquitoes. 933B.
- Claviceps purpurea* (Fries) Tulane.
- Water ext. T aphids, psylla, thrips, also other sucking insects, and those unprotected by hairs. 933.
- Claytonia virginica* L. (Virginia springbeauty).
- Exts. from entire plant were more or less repellent to Japanese beetle. 933B.
- Cleistanthus collinus* (Roxb.) Benth. and Hook.
- Used for fish poisoning; inner bark placed on sores of sheep and goats is efficacious in healing them and in destroying maggots. 933.
- Cleistanthus* spp.
- Green vegetable matter decaying in water sometimes pollutes the water and thus helps to control mosquitoes; one of best genera so far found in India as *Cratichneumon*, poisonous to fish. 933B.
- Clematis vitalba* L. (Honduras fish poison).
- Repellent to weevils in France; efficient against silkworms. 933, 933B.
- Cleome rosea* Vahl.
- Used in Brazil as fish poison. 795.
- Cleome spinosa* L.
- Used as fish poison. 795.
- Clerodendron inerme* Gaertn.
- 20% Water suspension of powdered stems 80% T nymphs of mango hoppers; deterrent to honeybees. 933E.
- Clerodendron infortunatum* Gaertn. (*Volkameria infortunata* Roxb.).
- In India natives believed that the presence of this plant cured scabies. 933B.
- Clerodendrum phlomidoides* L. f.
- Bitter juice of leaves of white-flowered variety much used in Sind, India as remedy for itch. 933B.
- Clididium heterotrichum* Blake.
- Used in Peru and Bolivia as fish poison. 795.
- Clididium polygynum* Blake.
- Used as fish poison. 795.
- Clididium strigulosum* Blake.
- Leaves and fruit used as fish poison. 795.
- Clididium surinamense* L.
- Used as fish poison; NT silkworms. 795, 933.
- Clididium sylvestre* (Aubl.) Baill.
- Leaves and fruit used as fish poison. 795.
- Clitoria amazonum* Hart.
- Branches used as fish poison. 795.
- Clitoria arborescens* Ait.
- Leaves and roots used as fish poison. 795.
- Clitoria guianensis* Benth.
- Used as fish poison. 795.
- Clitoria macrophylla* Wall.
- Exts. of roots ST bean aphid. 933B.
- Clover, see *Melilotus albus*.
- Clover, hop, see *Trifolium agrarium*.
- Clover, rabbitfoot, see *Trifolium arvense*.
- Clover, white sweet, see *Melilotus alba*.
- Clover, yellow sweet, see *Melilotus officinalis*.
- Clove tree, see *Syzygium aromaticum*.
- Club, golden, see *Orontium aquaticum*.
- Cnicus benedictus*. (Blessed thistle).
- Water ext. of whole plant 35% T mosquito larvae. 643A.
- Coca, see *Erythroxylum coca*.
- Corchorus indicus*, see *Anamirta cocculus*.
- Cochlospermum religiosum*. (*C. gossypium* (L.) DC.).
- Addition of 0.2% karaya gum considerably increased effectiveness of all nicotine sprays used against *Frankliniella fusca*, *Macrosiphum ambrosiae*, and bean aphid. 933B.
- Cocillana, see *Gutesa rusbyi*.
- Cocklebur, see *Xanthium strumarium*.
- Cocoa, see *Theobroma cacao*.
- Cocos nucifera* L. (Coconut).
- Black oil extd. from shell used for itch and other parasitic affections; oil retarded attacks of weevils as long as grain remained moist, but grain was attacked after a few months; good control of cranberry fruitworm was obtained with derris and cube sprays containing coconut oil soap. 933B.

- Coffea arabica** L. (Coffee).  
Caffeine had some mothproofing value but insufficient for practical use; NT houseflies, caterpillars, and, used as dust, 15.5% T codling moth larvae; a 1-100 dilution 100% T bees in 24 hrs., a 1-200 dilution within 48 hrs., and a 1-400 dilution 34% T within 48 hrs. 933B.
- Coffea liberica** Hiern.  
Caffeine had some mothproofing value but insufficient for practical use; NT houseflies, caterpillars, and, used as dust, 15.5% T codling moth. 933B.
- Coffee**, see *Coffea arabica*.
- Coffee-ash**.  
T against die-back disease. 1503.
- Coffee senna**, see *Cassia occidentalis*.
- Coffee tree**, Kentucky, see *Gymnocladus dioica*.
- Cohosh**, blue, see *Caulophyllum thalictroides*.
- Colchicum autumnale** L. (Meadow saffron).  
Decoction from seeds or roots with vinegar or alcohol recommended against aphids on rose bushes; exts. were not repellent to Japanese beetle; exts. applied as sprays against adult mosquitoes were much inferior to standard mosquitoicide; tincture of colchicum mixed with honey NT ants. 933B.
- Collinsia canadensis** L. (Citronella horsebalm).  
Exts. were not repellent to Japanese beetle. 933B.
- Colocynthis**, see *Citrullus colocynthis*.
- Colocynthis vulgaris**, see *Citrullus colocynthis*.
- Coltsfoot**, see *Tussilago farfara*.
- Comandra umbellata** (L.) Nutt. (Comandra).  
Exts. from entire plant were repellent to Japanese beetle. 933B.
- Comfrey**, common, see *Symphytum officinale*.
- Commiphora myrrha** and species. (Myrrh gum).  
Acetone ext. of gum NT mosquito larvae; myrrhineid T as mothproofing agent. 645, 936P, 1175.
- Commiphora** sp.  
Used as insecticide in Sind, India. 933B.
- Compass plant**, see *Silphium laciniatum*.
- Comptosia peregrina**, see *Myrica peregrina*.
- Conami cilioidium**.  
Exts. of roots, stems, leaves, flowers, and fruit of this fish poison plant from British Guiana were NT bean aphid. 933B.
- Coneflower**, hedgehog-, see *Echinacea pallida*.
- Conium maculatum** L. (Poison-hemlock).  
Infusion of flowers, leaves, and stems T various insects; powdered fruit NT fly larvae. 933.
- Convallaria majalis** L. (Lily-of-the-valley).  
Exts. were not repellent to Japanese beetle; acetone ext. of leaves NT mosquito larvae. 645, 933B.
- Conyza squarrosa**, see *Inula conyza*.
- Copailera langsdorffii** Desf. (*Copaiva langsdorffii* (Desf.) O. Kze.; *copaiba*).  
Oil 10-0% T *Lucilia cuprina* larvae; oil exhibited good repellent action on screwworms for 1 or 2 days only. 849, 933B.
- Copailera officinalis** L. (*Copaiva officinalis* (L.) Jacq.).  
African copaiuba oil (66%) was powerful attractant for male fruitflies in South Africa. 933B.
- Coperucia cerifera** Mart. (Carnauba palm).  
Wax used with an odorous insecticidal material in impregnating wood to form an artificial cedar board or "moth wood." 933B.
- Coptis groenlandica** (Oeder) Fern. (Common gold thread).  
Acetone exts. of whole plant 55% T mosquito larvae. 933B.
- Coptis Trifolia**. (Alaska gold thread).  
Acetone ext. of whole plant T mosquito larvae. 643A.
- Cordia myxa** L.  
Powdered bark used as external application in prurigo by Santals in India. 933B.
- Coreopsis grandiflora** Hogg. (Big coreopsis).  
Exts. from whole plant were repellent to Japanese beetle. 933B.
- Coriander**, oil of, see *Coriandrum sativum*.
- Coriandrum sativum** L. (Morocco coriander).  
Acetone ext. of seeds T mosquito larvae; oil 39-20% T *Lucilia cuprina* larvae. 645, 849.
- Coriaria ruscifolia** L.  
Used in Chile as fish poison. 795.
- Cork tree**, Amur, see *Phellodendron amurense*.
- Corn**, Indian, see *Zea mays*.
- Corn oil**, see *Zea* sp.
- Corn, squirrel**, see *Dicentra canadensis*.
- Corncockle**, see *Agrostemma githaga*.
- Cornus florida** L. (Flowering dogwood).  
Acetone ext. of leaves 60% T mosquito larvae and acetone ext. of bark NT. 643A, 645.
- Coscinium blumeianum** Miers. (Tuba kupak).  
5% Water ext. of bark and stems of this Malayan fish poison plant NT larvae of *Parasa herbifera*. 933B.
- Costmary**, see *Chrysanthemum majus*.
- Costus**, see *Saussurea lappa*.
- Cotton plants**, see *Gossypium* spp.
- Cotton, sea-island**, see *Gossypium barbadense*.
- Courmarouna odorata**, see *Dipteryx odorata*.
- Covillea tridentata**, see *Larrea divaricata*.
- Cowwheat**, see *Melampyrum lineare*.
- Crabwood**, see *Carapa procera*.
- Cracca**, see *Tephrosia*.
- Creaper**, elephant, see *Argyreia speciosa*.
- Creaper**, trumpet, see *Campsis radicans*.
- Creaper**, Virginia, see *Parthenocissus quinquefolia*.
- Cresotebush**, see *Larrea divaricata*.
- Cress**, Afghan bitter, see *Erysimum perofskianum*.
- Cress**, bitter winter, see *Barbarea vulgaris*.
- Cress**, mouse-ear, see *Arabisopsis thaliana*.
- Crewia tiliaefolia** Vahl.  
In India bark was employed externally to remove the irritation in cow itch. 933B.
- Crocus sativus** L. (Crocus).  
Exts. from plants were not repellent to Japanese beetle. 933B.
- Crotalaria angulosa**, see *Crotalaria verrucosa*.
- Crotalaria paniculata** Willd.  
Used in India as fish poison and as insecticide. 933B.
- Crotalaria verrucosa** L. (*C. angulosa* Lam.).  
Juice of leaves and tender stalks used in cases of scabies. 933B.
- Crotalaria** spp.  
In tests on the effect of poisonous plants on cane grubs in Queensland this genus was the most promising. 933B.
- Croton capitatus** Michx.  
NT Cotton caterpillars. 933.
- Croton eluteria** (L.) Swartz. (Cascarilla).  
Used as fumigant in Bermuda, is mosquito repellent; acetone ext. of bark NT mosquito larvae. 645, 933.
- Croton flavens** L.  
Used as insecticide in Venezuela, but not very effective on roaches, flies, or gnats. 933.
- Croton glandulosus** L.  
Leaves and blossoms NT cotton caterpillars. 933.
- Croton monanthogynus** Michx.  
Leaves and blossoms NT cotton caterpillars. 933.
- Croton oblongifolius** Roxb.  
Seeds used as insecticide in India. 933B.
- Croton**, oil of, see *Croton tiglium*.
- Croton texensis** (Klotzsch) Muell. Arg. (Crotonweed).  
NT cotton caterpillars. 933.
- Croton tiglium**.  
Oil of croton 10-0% T *Lucilia cuprina* larvae. 849.
- Croton** spp.  
Croton used in China as insecticide; T aphids; croton resin more toxic to goldfish than rotenone. 643A, 933B.
- Crotonweed**, see *Croton texensis*.
- Crow poison**, see *Amianthium muscatoxicum*.
- Cube**, see *Lonchocarpus* spp.
- Cubeb**, see *Piper cubeba*.
- Cucuracuta**, see *Haplophyton cimicifida*.
- Cucumber**, see *Cucumis sativus*.
- Cucumber root**, see *Medeola virginiana*.
- Cucumis colocynthis**, see *Citrullus colocynthis*.
- Cucumis melo**. (Muskmelon).  
Acetone ext. of seeds T mosquito larvae. 645.
- Cucumis sativus** L. (Cucumber).  
Juice was said to banish wood lice and kill cock-roaches; acetone ext. of seeds T mosquito larvae. 645, 933B.
- Cucurbita latidissima** H. B. K. (Missouri gourd).  
Acetone ext. of roots, NT mosquito larvae. 643A, 933B.
- Cucurbita maxima** Duchesne. (Turks' turban gourd).  
Acetone ext. of seeds T mosquito larvae. 645.



- Cucurbita moschata.** (Striped cushaw pumpkin).  
Acetone ext. of seeds T mosquito larvae. 645.
- Cucurbita pepo** L. (Pumpkin).  
Acetone ext. of seed 100% T mosquito larvae. 643A.
- Cucurbita pepo** L. var. *ovifera* Bailey. (Gourd).  
Acetone ext. of seeds T mosquito larvae. 645.
- Culvers root,** see *Veronicastrum virginicum*.
- Cuminum cyminum** L. (*C. odorata* Salisb.; cumin).  
MT as repellent to oriental cockroach; oil of cumin exhibited good repellency against screwworms for 1 or 2 days only. 933B.
- Cuminum** sp. (Also oil of cummin Eng.).  
Acetone ext. of seeds T mosquito larvae; oil T *Lucilia cuprina* larvae. 645, 849.
- Cunila origanoides** (L.) Britton. (Stonemint; American dittany herb).  
Exts. were not repellent to Japanese beetle; acetone ext. of entire plant NT mosquito larvae. 645, 933B.
- Cunila pulegioides,** see *Hedeoma pulegioides*.
- Cupenia** sp. (Moroballi; muraballi).  
Exts. of wood and bark of this fish poison plant from British Guiana were NT bean aphid. 933B.
- Cupressus sempervirens** L. (Cypress).  
Oil (50 p.p.m.) 90% T mosquito larvae. 643A.
- Curcuma aromatica** Salisb.  
Used in India externally for scabies and smallpox. 933B.
- Curcuma longa** L. (Turmeric).  
Pure turmeric useful for scabies and other skin diseases. 933B.
- Curcuma zedoaria** Rosc. (Zedoary).  
Exts. were not repellent to Japanese beetle. 933B.
- Cuscuta reflexa** Roxb. (*C. grandiflora* Wall.).  
Used in India externally against itch. 933B.
- Cusparia trifoliata** (Willd.) Engler.  
Bark and twigs used as fish poison. 795.
- Custard-apple,** see *Annona reticulata*.
- Cutch,** see *Acacia catechu*.
- Cycas circinalis** L. (Sago palm).  
Male bracts of this gymnospermous tree used in southern India as narcotic and were called "madana-kama-pu" or "flowers of Kama," which were said to contain a property that intoxicates insects that rest upon them. 933B.
- Cyclamen elegans.**  
Saponin, toxic element from either fresh or the dry bulbs, HT fruit tree parasites such as various *Paratetranychus*. 1118.
- Cydonia** sp. (Quince).  
Acetone ext. of seeds T mosquito larvae. 645.
- Cynbopogon nardus.** (Oil of citronella).  
Oil 79-60% T *Lucilia cuprina* larvae; shows little or no toxicity to red scale as fumigant. 268, 849.
- Cynanchum annotianum** Wight.  
Used as insecticide in India. 933B.
- Cynanchum masorhorizon** Carr.  
Blossoms contain a viscous substance in which all visiting insects are unable to extricate themselves. 933B.
- Cynanchum** sp.  
Gave low mortality to several species of insects. 837.
- Cynodon dactylon** (L.) Pers. (*Capriola dactylon* Kuntze; Bermuda grass).  
In India fresh juice was applied for scabies. 933B.
- Cynoglossum officinale** L. (Common houndstongue).  
Exts. were not repellent to Japanese beetle. 933B.
- Cynometra ramiflora** L. (*C. bijuga* Spanag.).  
Oil from seeds used externally for scabies. 933B.
- Cynthia,** see *Krigia biflora*.
- Cypress,** oil of, see *Cupressus sempervirens*.
- Cypripedium** sp. (Lady slipper).  
Water ext. of root 30% T mosquito larvae. 643A.
- Cyrtilla racemiflora** L. (Southern leatherwood).  
Honeybees poisoned by this plant, but only brood affected. Larvae died usually when nearly matured, often causing colonies to be weakened. 933B.
- Cytisus laburnum,** see *Laburnum anagyroides*.
- Cytisus scoparius** (L.) Link. (Scotch broom).  
Infusion made from fresh crushed tops T larvae of cabbage butterflies, also effective for removing *Cochylis* larvae from vines and various caterpillars from apple trees; NT silkworms. 933.
- Daca.**  
Powdered stems, mixed with grain in closed recep-
- tacles, did not protect grain from weevils; plant said to have insecticidal properties. 933B.
- Daffodil,** common, see *Narcissus pseudo-narcissus*.
- Daisy,** crown, see *Chrysanthemum coronarium*.
- Daisy, oxeye,** see *Chrysanthemum leucanthemum*.
- Dalea vulneraria** var. *barbata* Oerst. (*Parosela barbata* (Oerst.) Rydb.).  
Two constituents were isolated from this Florida plant, but they were NT to insects. 933B.
- Dandelion,** see *Taraxacum palustre* var. *officinale*.
- Daphne mezereum** L. (Spurge laurel).  
Plant is well known in medicine; frequently dead beetles, flies, and wasps were found beneath it; NT caterpillars. 933B.
- Dasystoma flava,** see *Aureolaria virginica*.
- Datura fastuosa** L.  
5% Alch. ext. of leaves 100% T *Prodenia litura*, *Euproctis fraterna*, and *Pericalia ricini*, and 85% T *Crocidolomia binotalis*; 5% ext. of fruits 100% T first species, 95% second and third, and 55% of fourth; NT adult mosquitoes. 933B.
- Datura metel** L. (Angel-trumpet).  
Used in Sind as insecticide; commonly pounded and used to smear floors of houses to kill lice and other vermin, especially "jiggers," in Gold Coast, Africa. 933B.
- Datura stramonium** L. (Jimsonweed; thornapple).  
Leaves, used as fumigant, T bedbugs, roaches, etc.; NT cotton caterpillars, potato beetles, rose beetles, and larvae of *Vanessa miiberti*. 933.
- Datura** sp.  
Ext. T as mothproofing agent. 617P, 1175.
- Daucus carota** L. (Wild carrot).  
Exts. were not repellent to Japanese beetle; acetone ext. of seeds NT mosquito larvae. 645, 933B.
- Deer's tongue,** see *Erythronium americanum*.
- Deguelia,** see *Derris*.
- Dela,** see *Capparis aphylla*.
- Delphinium ajacis** L. (Rocket larkspur).  
Acetone ext. of seeds T mosquito larvae; insecticidal value of seeds is due to oil present in them, while alkaloid in them plays insignificant part when tested against bedbugs. 645, 933.
- Delphinium bicolor** Nutt. (Low larkspur).  
NT webworms, grasshoppers, potato beetle larvae, and silkworms; ext. of blossoms ST silkworms. 933.
- Delphinium brownii.**  
Less toxic than nicotine sulfate to aphids, but as stomach poison and repellent, it is more effective to other insects. 1144.
- Delphinium brunoanum** Royle. (Musk larkspur).  
Juice used to destroy ticks on animals. 933.
- Delphinium coeruleum** Jacquem.  
Roots T maggots. 933.
- Delphinium consolida** L. (Field larkspur).  
Tincture T lice on human heads; effective poison on insects. 933.
- Delphinium delavayi** Fr. (Unidentified species of *Dendrobium*).  
HT Mexican bean beetle larvae, to other insects little or no toxicity; *Dendrobium* T houseflies, ST codling moth, and NT other insects. 837.
- Delphinium elatum** L.  
Used to destroy maggots in wounds. 933B.
- Delphinium staphisagria** L. (Stavesacre larkspur; lousewort).  
Acetone ext. of seeds T mosquito larvae; T lice and itch-mite. 645, 933.
- Delphinium vestitum** Wall.  
Used to destroy maggots in wounds. 933B.
- Delphinium zaliz** Aitch. and Hemsl.  
In India ashes of this species were useful for itch. 933B.
- Delphinium** sp. (Larkspur).  
T shortnosed ox louse; ext. of ground seed T fly larvae. 933.
- Dennstaedtia punctilobula** (Michx.) Moore. (Hay-scented fern).  
Acetone ext. of rhizome 10% T mosquito larvae. 643A.
- Derjania dentata** (Vell.) Radlk.  
Stems and leaves used as fish poison. 795.
- Derris amazonica,** see *Lonchocarpus negresis*.

- Derris benthami* Thw.  
Used as fish poison. 933B.
- Derris chinensis* Benth.  
Roots reported to contain rotenone. 759.
- Derris cuneifolia* Benth.  
Roots reported to contain rotenone. 759.
- Derris dalbergioides* Baker.  
Seeds reported to contain rotenone. 759.
- Derris elliptica* (Wall.) Benth. (East Indian fish poison).  
Powder, used as dust, T aphids and silkworms; alch. and benzene exts. when strong or used with soap or kerosene emulsion, T many species of aphids; alch. ext., used with soap, T half-grown sawfly larvae, but NT small webworms and larvae and adults of potato beetle; stems and seeds reported to contain rotenone. 759, 933.
- Derris ferruginea* Benth.  
Roots reported to contain rotenone. 759.
- Derris grandifolia* D. Smith.  
Aerial portions reported to contain rotenone. 759.
- Derris guianensis* Benth.  
Used as fish poison. 795.
- Derris heptaphylla* (L.) Merr.  
This species had insecticidal value. 933B.
- Derris koolgibberah* F. M. Bailey.  
Alch. exts. were generally efficient, but this species was unsatisfactory for insecticidal purposes. 933B.
- Derris malaccensis* (Benth.) Prain.  
Roots reported to contain rotenone. 759.
- Derris negrensis* Benth.  
Stem and leaves used as fish poison. 795.
- Derris oligosperma* K. Schum.  
Alch. exts. were seldom efficient, and this species was unsatisfactory for insecticidal purposes. 933B.
- Derris philippinensis* Merr.  
Powdered roots T aphids and mosquito larvae. 933B.
- Derris polyantha* Perkins.  
Roots reported to contain rotenone. 759.
- Derris robusta* Benth.  
Alch. exts. were seldom efficient, and this species was unsatisfactory for insecticidal purposes. 933B.
- Derris scandens* Benth.  
Roots reported to contain rotenone. 759.
- Derris thyrsoiflora* Benth.  
ST lepidopterous larvae. 933B.
- Derris trifoliata* Lour. (*D. usinosa* (Roxb.) Benth.; Eastern fish poison).  
Stems, petioles, seeds, and roots reported to contain rotenone; T mosquito larvae. 759, 933, 971.
- Derris* sp.  
Exhausted roots, powdered, T black scale; emulsion T Mediterranean fruit fly; mothproofing agent; commonly used insecticide. 115, 263, 264, 849, 926P, 993, 1175, 1449P.
- Desmanthus virgatus* (L.) Willd.  
Used in Peru as fish poison. 795.
- Desmodium laburnifolium*, see *Meibomia laburnifolia*.
- Desmodium triflorum* (L.) DC. (*Meibomia triflora* (L.) Kuntze).  
Paste made from bruised leaves with kamala was applied to indolent sores and as remedy for itch. 933B.
- Dicentra canadensis* (Goldie) Walp. (*Bikukulla canadensis* (Goldie) Millsp.; squirrelcorn).  
Exts. were not repellent to Japanese beetle. 933B.
- Dichapetalum ruhlandii* Engl.  
Bush was poisonous to cattle and goats in Africa; sprays containing ext. of leaves NT citrus aphids. 933B.
- Dichapetalum toxicarium* (G. Don) Engl. (West African ratbane).  
In Sierra Leone used to destroy head lice. 933B.
- Dichrophyllum marginatum*, see *Euphorbia marginata*.
- Dichrostachys cinerea* Wight and Arn. (*Mimosa cinerea* L.).  
In India leaves mixed with corn given to horses to free them from bots and worms. 933B.
- Digitalis ambigua* Murr. (*D. grandiflora* L.am.).  
Leaves T aphids and flea beetles; used as substitute for nicotine in France. 933B.
- Digitalis purpurea* L. (Foxglove).  
Decoction T aphids on nut trees; tincture mixed with honey NT ants; exts. were not repellent to Japanese beetle; commercially prepared exts. NT bean aphid; spray containing an ext. NT larvae of vine moths in France. 933B.
- Dill, see *Anethum graveolens*.
- Dillenia indica* L.  
5% Alch. ext. of leaves 80% T larvae of *Prodenia litura* and *Crocidolomia binotalis*, and 100% T *Euproctis fraterna* and *Epilachna* sp.; 5% exts. of bark of root and stem 100% T *E. fraterna*; 5% ext. of leaves 60-70% T *Lecanium viride*. 933B.
- Dioscorea cylindrica* Burm. (*D. hispida* Dennst.; nam).  
Roots used for killing maggots infesting wounds of animals. 933B.
- Dioscorea piscatroum* Prain and Burkill. (Tuba cherok; sakut).  
5% Water ext. of roots killed 4/5 of larvae of moth *Parasa herbifera*, but a 0.5% ext. of derris roots killed all larvae in less time. 933B.
- Dioscorea villosa*. (Wild yam).  
Acetone and water ext. of root NT mosquito larvae. 643A.
- Dioscorea* sp.  
Recommended as repellent against fleas on man. 933B.
- Diospyros malabarica* (Desr.) Kostel. (*D. embryopteris* Pers.; *Embryopteris glutinifera* Roxb.).  
Pulp surrounding seeds used by Europeans in binding books, as it was obnoxious to insects. 933B.
- Diospyros malacapai* A. DC.  
Wood used as insecticide. 933.
- Diospyros montana* Roxb.  
5% Alch. ext. of leaves 40% T adult grasshoppers and 100% T beetle grubs; 3% ext. of leaves 70% T *Achaea janata* and 80% T *Diarcia obliqua*. 933B.
- Diospyros virginiana* L. (Common persimmon).  
Exts. were not repellent to Japanese beetle. 933B.
- Diospyros wallichii* King and Gamble. (Tuba-buah-daun).  
5% Water ext. of leaves of this Malayan fish poison tree killed only one-fifth of larvae of *Parasa herbifera* treated, but a similar ext. of roots killed none. 933B.
- Diospyros* sp.  
Wood used as insecticide. 933B.
- Dipterocarpus turbinatus* Gaertn. f. (*D. laevis* Ham.).  
Garjin oil, obtained from this plant, used in preserving bamboo wickerwork from insect attack. 933B.
- Dipteryx odorata* Willd. (*Coumarouna odorata* Aubl.; torika bean).  
When chemically pure and used in relatively large quantities, T grain weevils; alch. soln. used for mothproofing purposes. 933B.
- Dittany, American, see *Cunila origanoides*.
- Divi-divi, see *Caesalpinia coriaria*.
- Dodhsk, see *Euphorbia helioscopia*.
- Dogbane, see *Apocynum cannabinum*.
- Dogwood, flowering, see *Cornus florida*.
- Dolichos pseudopachyrrhizus* Harms. (Mhayo).  
In East Africa roots listed as insecticidal; in Kenya roots of this fish poison plant used for removing ticks from sheep and goats; alch. exts. T bean aphid, but results demonstrated roots were not of commercial interest but may be of value for local use. 933B.
- Dracocephalum moldavica* L.  
When applied in 2% emulsion sprays, 90% T red spiders and cotton aphids. 933B.
- Dracunculus vulgaris* Schott. (*Arum dracunculus* L.).  
Plant bears large flower which exhales odor so fetid and carrion-like that blowflies, carrion flies, and other slaughterhouse frequenters flock to it to deposit their eggs. 933B.
- Dragonroot, see *Arisema dracontium*.
- Drepanocarpus lunatus* (L. f.) Mey.  
Exts. of leaves, stems, roots, and fruit NT bean aphid. 933B.
- Drosera rotundifolia* L. (Roundleaf sundew).  
Exts. were not repellent to Japanese beetle. 933B.
- Dryopteris filix-mas* (L.) Schott. (*Aspidium*; *A. filixmas* (L.) Sw.; male fern).  
Acetone ext. of rhizome 100% T mosquito larvae. 643A.

*Duhoisia hopwoodii* F. Muell. (Pituri).

Exts. of this species might yield an insecticide superior to nicotine against some insects; sample of d-nornicotine, obtained from this Australian plant, found to have about same toxicity to bean aphid as l- and dl-nornicotines. 933B.

*Duranta repens* L. ((*D. plumieri* Jacq.).

Berries, when macerated, exude juice lethal to all anopheline and culicine mosquito larvae in dilutions up to 1 in 100. 933B.

*Behbhallium elaterium* L. A. Richard. (Flaterin).

NT *Tinania biselliella* and *Attagenus piceus*. 739, 1176.

Echinacea, see *Brauneria* sp.

*Echinacea pallida* (Nutt.) Britton. (Hedgehog-cone-flower).

Exts. were not repellent to Japanese beetle. 933B.

*Echinops echinatus* Roxb.

Roots T head lice, also powdered roots applied to wounds in cattle destroy maggots. 933.

*Elæis* spp.

*Thosca asiga* van Eecke was chief pest of oil palm in Sumatra. Mixture of lead arsenate and boiled linseed oil remained fairly well on leaves for 2½ months; palm oil less effective as adhesive and when mixed with lead arsenate showed no oviduct effectiveness when applied at low concentrations. 933B.

Elaterin, see *Echbhallium elaterium*.

Elder, American, see *Sambucus canadensis*.

Elder, European, see *Sambucus nigra*.

Elecampane, see *Inula helenium*.

*Elleteria cardamomum* Maton. (Cardamom).

Oil T *Lucilia cuprina* larvae. 849.

Elm, American, see *Ulmus americana*.

Emboy.

Very poisonous to fish in Ethiopia; natives used juice against scabies and other dermal afflictions. 933B.

*Embryopteris glutinifera*, see *Diospyros malabarica*.

*Entada africana* Guill. and Perr.

Leaves reported to contain rotenone. 759.

*Enterolobium timbouva* Mart.

Branches used as fish poison. 795.

*Ephedra altissima* Desf.

Water ext. of stalk 5% T mosquito larvae. 643A.

*Ephedra procera*.

Acetone and water ext. of stalk NT mosquito larvae. 643A.

*Ephedra* sp.

Acetone and water ext. of stalk NT mosquito larvae. 643A.

*Epigaea repens* L. (Trailing arbutus).

Exts. were not repellent to Japanese beetle. 933B.

*Equisetaceae*.

Ext. used as spray. 284P.

Erb-a-pique, see *Neurolepa lobata*.

*Erechtites hieracifolia* (L.) Raf. (Fireweed).

Exts. were not repellent to Japanese beetle. 933B.

*Eremocarpus setigerus* (Hook.) Benth. (Turkeymullein).

Cold-water exts. T goldfish, as are exts. of derris and cube root; further studies being made by Oregon St. Dept. Agr. to determine whether plant could be developed as source of insecticide. 933B.

*Erigeron annuus* (L.) Pers. (Daisy fleabane).

Exts. were not repellent to Japanese beetle. 933B.

*Erigeron canadensis* L. (Horseweed).

Exts. of fresh leaves and heads were repellent to Japanese beetle. 933B.

*Erigeron pulchellus* Michx. (Poor-robin-plantain).

Exts. were not repellent to Japanese beetle. 933B.

*Erigeron viscosus*, see *Inula viscosa*.

*Eriodictyon californicum*. (Yerba santa).

Acetone ext. of stem 35% T mosquito larvae and acetone and water ext. of leaves NT. 643A.

*Eriosema psoraloides* Don. (*E. cajanoides* Hook. f.).

In tropical West Africa leaves used to rub on dogs as remedy for or preventive of lice, etc. 933B.

*Erysimum perfolisium* Fisch. and Mey. (Afghan bittercress).

Full-strength exts. from entire plant were repellent to Japanese beetle. 933B.

*Erythrina variegata* Strickm. (*E. indica* Lam.).

In Ceylon, India juice of young leaves used to kill worms in sores. 933B.

*Erythronium americanum* Ker. (Trout lily; deer's tongue).

Powdered leaves considered one of best repellents against screwworm; exts. were not repellent to Japanese beetle. 933B.

*Erythroxylum coca* Lamarck. (Coca).

Folia coca and hydrochlorax cocaini (10% in flour) NT caterpillars; in Brazil tincture of coca leaves recommended as remedy for lice on poultry; spray solns. of cocaine hydrochloride against bean aphid required a concentration greater than 1 gm. to kill 95%. 933B.

*Eucalyptus globulus* Labill. (Blue gum; Australian fever tree).

Branches T mosquitoes and other insects; oil T gnats and *Lucilia cuprina* larvae; leaves NT clothes moth and red scale. 42, 268, 297P, 849, 933, 1024, 1048P, 1176, 1179, 1268.

*Eucalyptus* spp.

Leaves NT bedbugs, roaches, larvae of clothes moth, chicken lice, and dog fleas; oil strongly repellent to oriental cockroach but of no value as repellent or attractant to screwworm; smoke from burning fresh leaves stunned mosquitoes in 3-5 min. and killed them in 3 hrs. 643A, 933, 933B.

*Eugenia aromatica*, see *Syzygium aromaticum*.

*Eugenia caryophyllata*, see *Syzygium aromaticum*.

*Eugenia cinnam.*, see *Syzygium cinnam.*

*Euonymus americanus* L. (Brook euonymus).

Seeds used to destroy vermin in hair. 933.

*Euonymus atropurpureus*. (Wahoo).

Acetone and water ext. of bark of root 15% T mosquito larvae. 643A, 933.

*Euonymus europæa* L. (Spindle tree; European burning-bush).

Berries when powdered and dusted into hair of sheep, destroyed lice; fruit, made into ointment, used for destruction of Pediculidae; listed as insecticide. 933, 933B.

*Eupatorium capillifolium* (Lam.) Small. (Dogfennel).

Keeps off insects and bugs by strewing on floors of cellars and dairies. 933.

*Eupatorium coelestinum* L.

Exts. of leaves and flowers were not repellent to Japanese beetle. 933B.

*Eupatorium hyssopifolium* L. (Thoroughwort).

Exts. of leaves and flowers were repellent to Japanese beetle. 933B.

*Eupatorium maculatum* L.

Exts. of leaves and flowers were not repellent to Japanese beetle. 933B.

*Eupatorium perfoliatum* L. (Boneset).

Powdered leaves seemed obnoxious to cotton caterpillars, but an infusion from leaves had no effect on them. 643A, 933.

*Eupatorium pubescens* Muhl.

Exts. of leaves and flowers were not repellent to Japanese beetle. 933B.

*Eupatorium* sp. 933.

*Euphorbia antiquorum* L.

Juice used to kill maggots in wounds. 933B.

*Euphorbia bicolor* Engelm. and Gray.

Juice of plants used to brand cattle in Texas as screwworms would not infect the fresh scar and spot healed readily. 933B.

*Euphorbia biglandulosa* Desf.

Decoctions recommended as insecticides. 933B.

*Euphorbia caracasana* (Kl. and Garcke) Boiss.

Branches used as fish poison in Colombia and Venezuela. 795.

*Euphorbia cotinifolia* L.

Branches used to poison fish. 795.

*Euphorbia cotinoides* Miquel.

T silkworms. 795, 933.

*Euphorbia cyparissias* L.

In Crete plants were collected, crushed, and expressed juice, and then diluted with water to make a 2 to 4% soln. After an hr. liquid used for watering gardens in which melons, cucumbers, etc. were planted, in order to destroy mole crickets. 933B.

- Euphorbia dendroidea* L.  
Decoctions recommended as insecticides. 933B.
- Euphorbia helioscopia* L. (Dodhak).  
Water exts., macerated juices, and dusts of leaves  
NT psylla, aphids, and weevil grubs. 933B.
- Euphorbia hyberna* L.  
Ext. of stems and leaves of this fish poison plant  
from Ireland NT bean aphid. 933B.
- Euphorbia ipecacuanha* L. (Spurge).  
Ext. were not repellent to Japanese beetle. 933B.
- Euphorbia khasiana* Baker.  
Gave low mortality to all insects tested. 837.
- Euphorbia marginata* Pursh. (*Dichrophyllum marginatum* Klotzsch and Garcke; snow-on-the-mountain).  
Decoction ineffective against cotton caterpillars. 933.
- Euphorbia nerifolia* L.  
Used as insecticide in Sind, India; exts. applied  
as sprays against adult mosquitoes were much inferior to standard mosquitocide. 933B.
- Euphorbia resinifera* Berg.  
Euphorbium gum NT caterpillars; unstable as emulsifier. 933B.
- Euphorbia thymifolia* L.  
Used as insecticide in India. 933B.
- Euphorbia tirucalli* L.  
Used as fish poison and insecticide in India; 2% ext. of stems 72.5% T citrus aphids. 933B.
- Euphorbia vermiculata* Raf.  
Ext. were not repellent to Japanese beetle. 933B.
- Euphorbia* sp.  
Used as insecticides in form of decoctions. Acetone ext. of leaves and stems NT mosquito larvae. 645, 933.
- Euphrasia officinalis* L. (Eyebright).  
Ext. were not repellent to Japanese beetle. 933B.
- Everlasting, sweet, see *Gnaphalium obtusifolium*.
- Excoecaria agallocha* L. (Blinding tree; babooter).  
Malays used sap to kill maggots infesting sores on buffaloes. 933B.
- Exogonium purga*. (*E. jalapa*; *Ipomoea j.* (L.) Pursh; jalap).  
Acetone ext. of root T mosquito larvae; exts. were not repellent to Japanese beetle. 645, 933B.
- Eyebright, see *Euphrasia officinalis*.
- Figara clava-herculis*, see *Zanthoxylum clava-herculis*.
- Fagopyrum sagittatum* Gilb. (Buckwheat).  
Ext. were not repellent to Japanese beetle. 933B.
- Fagus grandifolia* Ehrh. (American beech).  
Ext. were not repellent to Japanese beetle. 933B.
- Fennel, doz, see *Eupatorium capillifolium*.
- Fennel flower, see *Nigella sativa*.
- Fennel, French, see *Feniculum vulgare*.
- Fenugreek, see *Trigonella foenum-graecum*.
- Fern, Christmas, see *Polystichum acrostichoides*.
- Fern, cinnamon, see *Osmunda cinnamomea*.
- Fern, flowering, see *Osmunda regalis*.
- Fern, hay-scented, see *Dennstedtia punctilobula*.
- Fern, maiden hair, see *Adiantum pedatum*.
- Fern, male, see *Dryopteris felix-mas*.
- Fern, parsley, see *Lomatia silaifolia*.
- Fern, sensitive, see *Oncoclea sensibilis*.
- Fern, sweet, see *Myrica perigrina*.
- Ferula assaefetida* L. (Asaefetida).  
Strongly repellent to cornfield ant; oil 100% T *Lucilia cuprina* larvae; NT white ant of India, grain weevil, caterpillars of *Prodenia litura*, tarnished plant bug, and screwworms. 849, 933B.
- Ferula fetida* Regel. (Hing).  
Ext. used as sprays against adult mosquitoes were much inferior to standard mosquitocide. 933B.
- Ferula galbaniflua* Boiss. and Buhse.  
Of 20 gums tested with 4 oils to find stable emulsifiers, galbanum Indian gum was found to be best. Only 0.5% of it was sufficient to produce a solid emulsion which remained stable for several weeks without the addition of a preservative. 933B.
- Feverfew, see *Chrysanthemum parthenium*.
- Fever tree, Australian, see *Eucalyptus globulus*.
- Ficus religiosa* L. (*F. affinis* Griff.; peepul tree).  
In India an infusion of the bark was given internally for scabies. 933B.
- Figwort, see *Scrophularia marilandica*.
- Fir, balsam, see *Abies balsamea*.
- Fir, Scotch, oil of, see *Pinus sylvestris*.
- Fir, veitch, see *Abies veitchii*.
- Fir, white, see *Abies concolor*.
- Fireweed, see *Erechtites hieracifolia*.
- Fish berries, see *Anamirta cocculus*.
- Fish poison, Eastern, see *Derris trifoliata*.
- Fish poison, Honduras, see *Clematis vitalba*.
- Fish poison, Jamaica, see *Piscidia piscipula*.
- Fish poison, Pacific, see *Tephrosia piscatoria*.
- Flag, blue, see *Iris* sp.
- Flag, sweet, see *Acorus calamus*.
- Flax, see *Linum usitatissimum*.
- Fl seabane, daisy, see *Erigeron annuus*.
- Fleawort, see *Fulicaria dysenterica*.
- Fleece vine, see *Polygonum auberti*.
- Flower-of-an-hour, see *Hibiscus trionum*.
- Flugges leucopyrus Willd.  
Leaves used as insecticide. 933.
- Flugges microcarpa Blume.  
Used as fish poison and insecticide; juice of leaves or leaves made into paste with tobacco were used to destroy worms in sores. 933B.
- Fly agaric, see *Amanita muscaria*.
- Foeniculum vulgare* Miller. (French fennel).  
Acetone ext. of seeds T mosquito larvae; oil T *Lucilia cuprina* larvae and codling moth. 645, 849, 1423A.
- Fomes officinalis* (Fr.) Faull. (*Polyporus officinalis* Fr.; larch agaric).  
Ext. from fungus were not repellent to Japanese beetle; NT caterpillars of *Prodenia litura*. 933B.
- Foxglove, see *Digitalis purpurea*.
- Frangipani, Mexican, see *Plumeria rubra*.
- Frankincense, see *Boswellia carteri*.
- Fraxinus americana* L. (White ash).  
Ext. were not repellent to Japanese beetle. 933B.
- Fringe tree, see *Chionanthus virginicus*.
- Fumaria officinalis* L. (Common fumitory).  
Acetone ext. of whole plant NT mosquito larvae; exts. from plants were not repellent to Japanese beetle. 645, 933B.
- Furcraea hexapetala* (Jacq.) Vent. (*F. cubensis* Vent.).  
NT silkworms. 933.
- Fustic, see *Chiocophora tinctoria*.
- Galactia* sp. (*G. regularis* (L.) BSP.?).  
Roots reported to contain rotenone. 759.
- Galangal, see *Alpinia officinarum*.
- Galea officinalis* L. (Common goatsrue).  
Ext. were not repellent to Japanese beetle. 933B.
- Galedupa indica*, see *Pongamia pinnata*.
- Galega officinalis*. (Galega).  
Acetone ext. of whole plant NT mosquito larvae. 645.
- Galega piscatoria*, see *Tephrosia piscatoria*.
- Galega purpurea*, see *Tephrosia piscatoria*.
- Galinsoga parviflora* Cav. (Galinsoga).  
NT aphids. 933.
- Galium aparine* L. (Bedstraw).  
Ext. were not repellent to Japanese beetle. 933B.
- Galium triflorum* Michx. (Fragrant bedstraw).  
Ext. were not repellent to Japanese beetle. 933B.
- Gambier, see *Uncaria gambir*.
- Garcinia hanburyi* Hook. f.  
Various gums were tested with oils to find a stable emulsifier. Ammoniac gamboge gum was one of four efficient gums used. (This may not be correctly classified.) 933B.
- Garcinia morella* Desr.  
Ext. used as sprays against adult mosquitoes were much inferior to standard mosquitocide. 933B.
- Gardenia campanulata* Roxb. (Bilimzona).  
This fish poison plant grows profusely in Assam; juice was evidently an efficient larvicide in dilution up to 1 in 80; larvicidal action due to a saponin. 933B.
- Gardenia gummifera* L. f.  
In India the gum was used to keep insects from sores on cattle; strong-smelling gum resin used extensively in European hospitals and veterinary work to keep flies from sores. 933B.
- Gardenia lucida* Roxb.  
Strong smelling gum resin from wounds in the bark and from leaf buds of this tree was used in cutaneous diseases and to keep off flies and worms. 933B.
- Garlic, see *Allium sativum*.

- Garlic, meadow, *see* *Allium canadense*.  
*Gaultheria fragrantissima* Wall.  
 Exts. applied as sprays against adult mosquitoes were much inferior to standard mosquitocide. 933B.  
*Gaultheria procumbens*. (Wintergreen).  
 Water ext. of whole plant 20% T mosquito larvae. 643A.  
 Gayfeather, spike, *see* *Liatris spicata*.  
*Gelsemium elegans* Benth.  
 In China this plant was used against all kinds of insects. 933B.  
*Gelsemium sempervirens* (L.) Ait. (Yellow jessamine).  
 Honeybees visiting the flowers are poisoned, but only young workers were affected. 933B.  
*Gendarussa vulgaris*, *see* *Justicia gendarussa*.  
*Genista germanica* L. (European broom).  
 An infusion controlled cabbage worms in France, also larvae of cecylys and cabbage butterfly. 933B.  
*Genista tinctoria* L. (Woadwaxen).  
 Exts. were not repellent to Japanese beetle. 933B.  
*Genista* sp. (Droom).  
 Spartine and other exts. of broom seeds have been used for mothproofing purposes. 933B, 1176, 1260P.  
 Gentian, centaury, *see* *Centaureium umbellatum*.  
 Gentian, rose, *see* *Sabatia angularis*.  
 Gentian, yellow, *see* *Gentiana lutea*.  
*Gentiana lutea* L. (Yellow gentian).  
 Radix gentianale NT caterpillars of *Prodenia litura*; exts. were not repellent to Japanese beetle. 933B.  
 Geranium, *see* *Pelargonium zonale*.  
*Geranium carolinianum* L. (Cranebill geranium).  
 Exts. were not repellent to Japanese beetle. 933B.  
 Geranium, cranebill, *see* *Geranium carolinianum*.  
 Geranium, lemon, *see* *Pelargonium crispum*.  
*Geranium maculatum* L. (Wild geranium).  
 Acetone ext. of root 20% T mosquito larvae. 643A.  
 Geranium, rose, oil of, *see* *Pelargonium odoratissimum*.  
 Geranium, wild, *see* *Geranium maculatum*.  
 Geraniums, *see* *Pelargonium* spp.  
 Gerardia, *see* *Auerolaria pedicularia*.  
*Gerbera jamesoni* Bolus.  
 Acetone ext. of stems T mosquito larvae. 645.  
 Germander, American, *see* *Teucrium canadense*.  
 Ginger, Jamaican, *see* *Zingiber officinale*.  
*Ginkgo biloba* L. (Ginkgo).  
 Acetone and water ext. NT mosquito larvae. 643A.  
*Girardinia palmata* (Forsk.) Caudich.  
 Exts. applied as sprays against adult mosquitoes were much inferior to standard mosquitocide. 933B.  
*Gironniera reticulata* Thwaites.  
 Plant, scraped fine and mixed with lemon juice, used in India to anoint the body to cure itch. 933B.  
*Gladiolus* spp. (Gladiolus).  
 Acetone ext. of leaves 5% T mosquito larvae. 643A.  
*Glechoma hederacea* L. (*Nepeta hederacea* (L.) Trevisan; ground ivy).  
 Exts. were not repellent to Japanese beetle; water exts. of whole plant 30% T mosquito larvae. 643A, 933B.  
*Gliricidia sepium* (Jacq.) Steud. (Madriado).  
 Insecticidal plant occurring in Nicaragua. 933B.  
*Gloriosa superba* L.  
 Juice of leaves used in India for destruction of lice in hair. 933B.  
*Glycine soja*. (*G. hispida*; *Soja maz* (L.) Piper; soybean).  
 Oil, crude and refined, T cockroach, Colorado potato beetle, and Mexican bean beetle eggs; eggs immersed in oils for prolonged periods collapsed, apparently through loss of water. 78, 933B.  
*Glycyrrhiza glabra* L. (Common licorice).  
 Exts. were not repellent to Japanese beetle. 933B.  
*Glycyrrhiza glabra typica*. (Spanish licorice).  
 Acetone ext. of root NT mosquito larvae. 645.  
*Gmelina arborea* Roxb.  
 Juice of the leaves used by Hindus to remove fetid discharges and worms from ulcers. 933B.  
*Gnaphalium obtusifolium* L. (Sweet everlasting).  
 Exts. were not repellent to Japanese beetle. 933B.  
 Goatsrue, common, *see* *Galea officinalis*.  
 Goldenrod, *see* *Solidago* sp.  
 Goldenrod, early, *see* *Solidago juncea*.  
 Goldenrod, fragrant, *see* *Solidago odora*.  
 Goldenseal, *see* *Hydrastis canadensis*.  
 Gold thread, Alaska, *see* *Coptis trifolia*.  
 Gold thread, common, *see* *Coptis groenlandica*.  
 Gorse, *see* *Ulex Europaeus*.  
*Gossypium barbadense* L. (Sea-island cotton).  
 Cottonseed oil has insecticidal value. 933B.  
*Gossypium* spp.  
 Oil (soluble) T cockroach, Colorado potato beetle, and Mexican bean beetle; oil (sulphonated) T as mothproofing agent; MT *Phenacoccus gossypii*. 78, 265, 827P, 680P, 1176, 1178.  
*Gouania lupuloides* (L.) Urban. (*G. domingensis* L.). 933.  
*Gouania polygama* (Jacq.) Urban. (*G. tomentosa* Jacq.). 933.  
 Gourd, *see* *Cucurbita pepo ovifera*.  
 Gourd, dish-cloth, *see* *Luffa* sp.  
 Gourd, Missouri, *see* *Cucurbita foetidissima*.  
 Gourd, Turks' turban, *see* *Cucurbita maxima*.  
 Grass, Bermuda, *see* *Cynodon dactylon*.  
 Grass, blue-eyed, *see* *Sisyrinchium* sp.  
 Grass, cactus, *see* *Vetiveria zizanioides*.  
 Grass, molasses, *see* *Melinis minutiflora*.  
 Grass, quack, *see* *Agropyron repens*.  
 Grass, sleepy, *see* *Stipa viridula*.  
 Grass, velvet, *see* *Holcus lanatus*.  
 Greenbrier, common, *see* *Smilax rotundifolia*.  
*Grewia carpinifolia* Juss.  
 Women in west tropical Africa used sap in washing the hair to remove or prevent lice. 933B.  
*Grewia tiliaefolia* Vahl.  
 In India, bark employed externally to remove irritation of cow itch. 933B.  
*Grindelia camporum* Greene. (Grindelia).  
 Exts. were not repellent to Japanese beetle. 933B.  
*Grindelia* sp. (Grindelia robusta).  
 Acetone ext. of whole plant 65% T mosquito larvae. 643A.  
 Groundnut, *see* *Arachis hypogaea*.  
 Groundsel, *see* *Senecio aureus*.  
*Guaianum officinale* L. (Guallcan tree).  
 Guaiacol, which is derived from this tree, was considered one of best repellents to sawworm. 933B.  
*Guaresia rusbyi* (Britton) Rusby. (Coallana).  
 Exts. from dry bark were repellent to Japanese beetle. 933B.  
*Gaultheria dioica*, *see* *Gymnocladus dioica*.  
 Gum, blue, *see* *Eucalyptus globulus*.  
 Gum, karaya, *see* *Karaya gum*.  
 Gum, kino, *see* *Butea monosperma*.  
 Gum, myrrh, *see* *Commiphora myrrha*.  
 Gum, sweet, *see* *Liquidambar styraciflua*.  
*Gustavia angusta* L.  
 Fruit used as fish poison. 795.  
*Gustavia brasiliensis* DC.  
 Fruit used as fish poison. 795.  
*Gymnocladus dioica* (L.) Koch. (*G. canadensis* Lam.; *Gaultheria dioica* L.; Kentucky coffee tree).  
 Leaves and fruit pulp, when rubbed with milk, T flies; juice from green leaves, mixed with sugar sirup, molasses and honey, NT flies. 933.  
*Gymnosporia montana* Benth. (*Celastrus montana* Roxb.).  
 Bark, ground to a paste, applied with oils to the head to destroy Pediculidae. 933B.  
*Gymnosporia senegalensis* (Lam.) Loes.  
 Bark, ground to a paste, applied with oils to the head to destroy Pediculidae. 933B.  
*Gynandropsis gynandra* (L.) Briq. (*G. pentaphylla* (L.) DC.).  
 Used in India as insecticide; seeds, rubbed with oil, used as vermicide in dressing the hair. 933B.  
*Gynocarpia odorata* R. Br. (Chaunmoogra).  
 Rare earth salts of chaunmoogric acid were claimed for mothproofing; fruit used as fish poison and as insecticide. 933B.  
*Gypsophila vaccaria*, *see* *Saponaria vaccaria*.  
*Gyrotheca tinctoria*, *see* *Lachnanthes tinctoria*.  
*Habenaria blephariglossis* (Willd.) Torr. (White fringe-orchid).  
 Exts. were not repellent to Japanese beetle. 933B.  
*Hametoxylon campechianum* L. (Logwood).  
 Two commercial exts. were effective repellents against Japanese beetle; acetone ext. of wood NT mosquito larvae. 645, 933B.

- Hagenia abyssinica*. (Kusso tree).  
Acetone ext. of flowers NT mosquito larvae. 645.
- Haiairi*, see *Lonchocarpus* spp.
- Haiairi*, red, see *Lonchocarpus* spp.
- Halesia carolina* L. (Silverbell tree).  
Dead Japanese beetles were found under this tree. 933B.
- Hamamelis virginiana* L. (Witch hazel).  
Acetone ext. of bark NT mosquito larvae. 645.
- Haplophyton cemicidum* A. DC. (Curatacha).  
T several species of insects. 27, 202, 296, 643A, 933.
- Harahara.**  
Only vegetable insecticide found in Madagascar; decoction from roots was stated to be an excellent insecticide and much employed by the natives to destroy parasites of the scalp. 933B.
- Haronga madagascariensis* Choisy. (*H. paniculata* Lodd.).  
Exts. from bark of plant from Sierra Leona NT bean aphid. 933B.
- Hartstongue*, see *Phyllitis scolopendrium*.
- Hawkweed*, see *Hieracium pratense*.
- Hebitchioahabu*, see *Serjania* sp.
- Hedeoma pulegioides* (L.) Pers. (*Cunila pulegioides* L.; American pennyroyal).  
NT cotton caterpillars and mosquito larvae; oil 99-80% T *Lucilia cuprina* larvae. 643A, 849, 933.
- Hedera helix* L. (English ivy).  
Exts., 5% spray soln., 43% T six species of caterpillars, and 1% soln. 13% T four of these species; results in other tests proved them not so efficient as various other insecticides. 933B.
- Hedera quinquefolia*, see *Parthenocissus quinquefolia*.
- Hedera* spp.  
In India ivy leaves have, from remote antiquity, been reputed to possess remedial virtues, especially as dressing for ulcers and to destroy vermin on the body. 933B.
- Hedychium spicatum* Hamilt.  
In India this plant was said to protect clothes from insect attacks. 933B.
- Helenium autumnale* L. (Sneezeweed).  
NT cotton caterpillars. 27, 203, 933.
- Helenium tenuifolium* Nutt. (Bitterweed).  
Powder from heads ST silkworms, flies, and aphids; NT cotton caterpillars. 27, 933.
- Helenium* sp. (Yerba de la pulga).  
Plant possesses exceptional insect-repelling qualities, and not only contains but actually exudes sufficient quantities of rotenone to make a single growing specimen of the plant repellent to practically all forms of insect life in an area of some 15 to 20 sq. feet. 933B.
- Helianthemum canadense* (L.) Michx. (Sunrose).  
Exts. were not repellent to Japanese beetle. 933B.
- Helianthus annuus* L. (Common sunflower).  
Exts. were not repellent to Japanese beetle. 933B.
- Heliopsis helianthoides* (L.). (Heliopsis; sweet sunflower).  
Exts. were not repellent to Japanese beetle. 933B.
- Heliotropium arborescens*. (*H. peruvianum* L.).  
T body lice. 933B.
- Heliotropium europaeum* L.  
T body lice. 933B.
- Heliotropium indicum* L. (India heliotrope).  
NT cotton caterpillars. 933.
- Heliotropium peruvianum*, see *H. arborescens*.
- Hellebore*, American false, see *Veratrum viride*.
- Hellebore*, black, see *Helleborus niger*.
- Hellebore*, fetid, see *Helleborus foetidus*.
- Hellebore*, green, see *Veratrum viride*.
- Hellebore*, white false, see *Veratrum album*.
- Helleborus foetidus* L. (Fetid hellebore).  
Exts. were not repellent to Japanese beetle. 933B.
- Helleborus niger* L. (Black hellebore).  
Powdered roots NT fly larvae. 933.
- Helleborus orientalis* Lam.  
Used by ancient Greeks and Romans in treating mania, skin diseases, etc. 933B.
- Helonias bullata* L. (Swamp pink).  
Exts. were repellent to the Japanese beetle. 933B.
- Helonia erythrosperma*, see *Amanthium muscatolicum*.
- Helonia officinalis*, see *Schoenocaulon officinale*.
- Hemerocallis fulva* L. (Day lily).  
Exts. were not repellent to Japanese beetle. 933B.
- Hemlock*, Canada, see *Tsuga canadensis*.
- Hemlock*, poison, see *Conium maculatum*.
- Hemlock*, spotted water, see *Cicuta maculata*.
- Hemp*, common, see *Cannabis sativa*.
- Henbane*, see *Hyoscyamus niger*.
- Henna*, Egyptian, see *Lawsonia inermis*.
- Hepatica americana* (DC.) Ker. or *H. nobilis* Schreb. (Hepatica).  
Exts. were not repellent to Japanese beetle. 933B.
- Hercules-club*, see *Zanthoxylum clava-herculis*.
- Herpestis monnieri*, see *Bramia monnieri*.
- Hevea* spp. (Rubber tree).  
Rubber latex was employed as an ingredient of an adhesive composition which might be used for mothproofing. 933B.
- Hibiscus abelmoschus* L. (*Abelmoschus moschatus* Moench).  
In Bombay seeds are rubbed to paste with milk and used to cure itch. 933B.
- Hibiscus trionum* L. (Flower-of-an-hour).  
Exts. were not repellent to Japanese beetle. 933B.
- Hibiscus vitifolius* L.  
In Africa a preparation from roots used to kill head lice. 933B.
- Hickory*, see *Carya* sp.
- Hicoria glabra*, see *Carya glabra*.
- Hieracium pratense* Tausch. (Hawkweed).  
Exts. from entire plant were repellent to Japanese beetle. 933B.
- Hing*, see *Ferula ferdida*.
- Hippobroma longiflora*, see *Isotoma longiflora*.
- Hippomane mancinella* L.  
Used in Mexico as fish poison. 795.
- Hiptage benghalensis* (L.) Kurz. 933B.
- Hiptage madagabota* Gaertn. 933.
- Hoarhound*, see *Marrubium vulgare*.
- Holcus lanatus* L. (Velvet grass).  
Exts. were not repellent to Japanese beetle. 933B.
- Holesampige.**  
5.7% Alch. ext. of stem bark 100% T adult grasshoppers. 933B.
- Holigarna amothiana* Hook. (Bibo).  
Ext. of seeds mixed with kerosene tested as larvicide against mosquitoes gave poor results. 933B.
- Holly*, American, see *Ilex opaca*.
- Hollygrape*, Oregon, see *Mahonia aquifolium*.
- Holotheca antidiysenterica* Wall.  
Green vegetable matter decaying in water sometimes pollutes water and thus helps to control mosquitoes; this species contains several alkaloids. 933B.
- Honey dew*, see *Melon*.
- Honeysuckle*, Japanese, see *Lonicera japonica*.
- Hongay*, see *Pongamia pinnata*.
- Hooroosha.**  
Decoction of bark was employed to destroy pediculi. 933B.
- Hops*, see *Humulus lupulus*.
- Horse chestnut*, see *Aesculus hippocastanum*.
- Horse nettle*, see *Solanum carolinense*.
- Horseradish*, see *Armoracia lapathifolia*.
- Horseweed*, see *Erigeron canadensis*.
- Houndstongue*, common, see *Cynoglossum officinale*.
- Humulus lupulus*. (Hops).  
Acetone ext. of whole plant NT mosquito larvae. 645.
- Huon*, oil of.  
19-0% T *Lucilia cuprina* larvae. 849.
- Hura crepitans* L. (Sandbox tree).  
Sap used as fish poison; NT aphids. 795, 933.
- Hura polyandra* Baill. (Javillo).  
In Central America this plant produces a latex of blistering properties which was used against microscopie skin parasites, especially *Tunga penetrans*. 933B.
- Hyacinthus orientalis* L. (Common hyacinth).  
Exts. were not repellent to Japanese beetle. 933B.
- Hydnocarpus anthelmintica* Pierre.  
Seeds used as insecticide. 933.
- Hydnocarpus venenatus* Gaertn.  
Fruit used as fish poison and as insecticide. 933B.
- Hydnocarpus wightianus* Blume. (Maravitti tree).  
In India the oil, beaten up with kernels and shells of castor oil seeds, used as remedy for itch; use of powdered cake of fruit checked coconut rhinoceros

- beetle; claimed to be fish poison in East Africa, but exts. of leaves and bark had no appreciable toxic effect on citrus aphids. 933B.
- Hydrangea aborescens.** (Hydrangea).  
Acetone ext. of root 90% T mosquito larvae. 643A.
- Hydrastis canadensis.** (Goldenseal).  
Water ext. of root 70% T mosquito larvae. 643A.
- Hydrolea zeylanica** Vahl.  
Leaves beaten into pulp and applied as poultice were considered efficacious in cleaning and healing bad ulcers, particularly those in which maggots had begun to breed. 933B.
- Hymenaea courbaril** L.  
Anise gum was unstable as emulsifier. 933B.
- Hyoscyamus albus** L.  
Decoction recommended as insecticide in Germany. 933B.
- Hyoscyamus niger** L. (Henbane).  
T aphids. 933.
- Hyoscyamus** spp.  
Exts. were tested against four species of caterpillars, 5% spray 20% T and 1% spray only 15% T; commercial exts. were not significantly toxic to bean aphid; an ext. used to mothproof wool; a concentrated infusion made of a mixture of dry, chopped inflorescences, leaves, stems, and roots (1 lb. to 1 gal. water) rapidly killed aphids on cabbage and watermelons, as well as other Rhynchotha. 517P, 933B, 1175.
- Hypericum perforatum** L. (St. Johnswort). 933B.
- Hyptis spiciocera** Lam.  
In Africa plant is burned in rooms to get rid of mosquitoes, and is placed in layer below bundles of millet to keep away termites. 933B.
- Hyssopus officinalis** L. (Hyssop).  
Acetone ext. of flowers and stems T mosquito larvae; ext. of whole plant T mosquito larvae. 645.
- Iceland moss, see *Cetraria islandica*.
- Ichthyomethia piscipula*, see *Piscidia piscipula*.
- Ichthyothere terminalis* (Spreng.) Blake.  
Used as fish poison. 795.
- Ilex opaca** Ait. (American holly).  
Exts. from fresh leaves were more or less repellent to Japanese beetle. 933B.
- Ilex paraguayensis.** (Paraguay tea).  
Ext. of leaves NT mosquito larvae. 645.
- Ilex verticillata** (L.) A. Gray. (Common winterberry).  
Exts. were not repellent to Japanese beetle. 933B.
- Impatiens balsamina** L. (Garden balsam).  
T as mothproofing agent; exts. were not repellent to Japanese beetle. 933B, 1137P, 1175.
- Impatiens biflora** Walt. (Spotted snapweed).  
Exts. were not repellent to Japanese beetle. 933B.
- Imperatoria ostruthium**, see *Peucedanum ostruthium*.
- Indian jack tree, see *Artocarpus heterophyllus*.
- Indian tobacco, see *Lobelia inflata*.
- Indian turnip, see *Arisema dracontium*.
- Indigo, true, see *Indigofera tinctoria*.
- Indigo, yellow wild, see *Baptisia tinctoria*.
- Indigofera tinctoria** L. (*I. indica* Lam.: true indigo).  
Used in Jamaica to destroy vermin. 933.
- Insect flowers, Caucasian, see *Chrysanthemum marschallii*.
- Insect flowers, dalmatian, see *Chrysanthemum cinerariifolium*.
- Insect flowers, Persian, see *Chrysanthemum* sp.
- Inula conyzia** DC. (*I. squarrosa* Bernh.; *Conyza squarrosa* L.; cinnamon-root). 933.
- Inula dysenterica**, see *Pulicaria dysenterica*.
- Inula helenium.** (Elecampane).  
Acetone ext. of root 100% T mosquito larvae. 643A.
- Inula pulicaria**, see *Pulicaria vulgaris*.
- Inula squarrosa**, see *Inula conyzia*.
- Inula viscosa** (L.) Ait. (*Erigeron viscosus* L.).  
Fumes of burning plant has stupefying effect on mosquitoes. 933.
- Ipecac, see *Cephaelis acuminata*.
- Ipomoea hederacea** Jacq.  
Decoctions of fresh leaves and young shoots used against aphids, scale insects, caterpillars, and flea beetles. 933B.
- Ipomoea jalapa**, see *Excozonium purga*.
- Ipomoea maritima** Jacq.  
Juice used to destroy bugs. 933B.
- Ipomoea pandurata** (L.) Meyer.  
Exts. were not repellent to Japanese beetle. 933B.
- Ipomoea purpurea** (L.) Roth.  
Decoctions of fresh leaves and young shoots used against aphids, scale insects, caterpillars, and flea beetles. 933B.
- Ipomoea** sp.  
Aldh. exts. of tubers from British Solomon Islands NT bean aphid. 933B.
- Iris blueflag**, see *Iris versicolor*.
- Iris florentina** L. (Orris-root).  
NT chicken lice, dog fleas, and clothes moths. 933, 1024, 1178.
- Iris germanica** L. (German orris root).  
NT chicken lice, dog fleas, and clothes moths. 933B.
- Iris versicolor** L. (Blueflag iris).  
Acetone and water exts. of roots 5% T mosquito larvae; exts. were not repellent to Japanese beetle. 643A, 933B.
- Ironweed, common, see *Vernonia noveboracensis*.
- Ironwood, see *Ostrya virginiana*.
- Isotoma longiflora** (L.) Presl. (*Hippobroma longiflora* (L.) Presl.).  
Powdered leaves and infusions NT caterpillars of *Prodenia litura*. 933B.
- Juru, see *Momordica schimperiana*.
- Ivy, English, see *Hedera helix*.
- Ivy, ground, see *Glechoma hederacea*.
- Jaborandi, see *Pilocarpus jaborandi*.
- Jacaranda copaia** (Aubl.) D. Don.  
Used as fish poison. 795.
- Jack-in-the-pulpit, see *Arisema triphyllum*.
- Jacquinia barbasco** (Loefl.).  
Leaves and fruit used as fish poison. 795.
- Jacquinia brasiliensis** Mez.  
Used as fish poison. 795.
- Jacquinia gracilis** Mez.  
Used as fish poison. 795.
- Jacquinia mucronulata** Blake.  
Used as fish poison. 795.
- Jacquinia revoluta** Jacq.  
Used as fish poison. 795.
- Jacquinia ruscifolia** Jacq.  
Exts. of stems and leaves NT bean aphid. 933B.
- Jacquinia sprucei** Mez.  
Used as fish poison. 795.
- Jalap, see *Excozonium purga*.
- Jatropha curcas** L.  
Used as fish poison. 795.
- Jatropha macrocarpa** Benth.  
Powder used as dust ST tent caterpillars and roaches. 933.
- Javillo, see *Hura polyandra*.
- Jeffersonia diphylla** (L.) Pers. (Twineleaf).  
Exts. were not repellent to Japanese beetle. 933B.
- Jessamine, yellow, see *Gelsemium sempervirens*.
- Jequirity, see *Abrus precatorius*.
- Jimsonweed, see *Datura stramonium*.
- Joannesia princeps** Vell.  
Bark and seeds used as fish poison. 795.
- Juglans cinerea** (Butternut).  
Water ext. of root bark 55% T mosquito larvae. 643A.
- Juglans glabra**, see *Carya glabra*.
- Juglans nigra** L. (Black walnut).  
Infusion from leaves used to kill plant lice and certain caterpillars; decoction of leaves poured on woolly aphid and in soil about roots of orchard trees gives good results; acetone ext. of bark T mosquito larvae. 645, 933.
- Juglans regia** L. (*J. regia* var. *kumaonica* C. DC.; Persian walnut).  
Exts. applied as sprays against adult mosquitoes were much inferior to standard mosquitocides. 933B.
- Juncus effusus** L. (Common rush).  
Exts. were not repellent to Japanese beetle. 933B.
- Juniper, see *Juniperus* sp.
- Juniperus communis** L.  
Oil of juniper berries T *Lucilia cuprina* larvae. 849.
- Juniperus oxycedrus** L. (Cade oil).  
Oil T as mothproofing agent; cade oil T *Lucilia cuprina* larvae. 849, 1179, 1282P.
- Juniperus sabina** L. (*Sabina officinalis* Garcke; savin).

- Aqueous exts. of young shoots used for mothproofing. 188P, 933, 1175.
- Juniperus virginiana* L. (Red cedar and other species of cedar).  
Aroma from volatile oil contained in wood is the insecticidal principle; cedar dust, leaf oil, and wood oil T as mothproofing agent; leaves and oil NT clothes moth (42, 43, 1024, 1479). 42, 43, 46, 297P, 933, 1024, 1137P, 1175, 1176, 1179, 1261P, 1479, 1490P.
- Juniperus* sp.  
Acetone ext. of berry 70% T mosquito larvae. 643A.
- Justicia adhatoda* L. (*Adhatoda vasica* Nees.; malabar-nut).  
T flies, fleas, mosquitoes, and pupae of aquatic insects. 933.
- Justicia gendarussa* L. f. (*Gendarussa vulgaris* Nees.).  
5% Ext. 100% T caterpillars of *Prodenia litura* and *Euproctis fraterna*, 3% ext. 80% T *E. fraterna*; 3% ext. of root bark 60% T *E. fraterna* and 4% ext. 100% T; powdered roots, leaves, and stems dusted upon beetles 75-80% T; leaves scattered among clothes preserves them from insects. 933B.
- Justicia repens*, see *Rungia repens*.  
Knyaw, see *Bandeiraea simplicifolia*.
- Kalschoe laciniata*. (*K. spathulata* DC.).  
Leaves used as insecticide. 933B.
- Kalmia angustifolia* L. (Lambkill).  
Dried leaves NT fly larvae. 933.
- Kalmia latifolia* L. (Mountain laurel).  
Infusions of dried leaves NT fly larvae in horse manure; exts. were not repellent to Japanese beetle. 933B.
- Kamala, genuine, see *Mallotus philippinensis*.  
Kaner, see *Nerium indicum*.
- Karaya gum.  
T red spider, thrips, mealy bug, and aphids. 235.
- Karwinskia humboldtiana* Zucc. (Margarita).  
T silkworms; 8T catalpa caterpillars and NT tulip tree aphids. 933.
- Kemanyan, see *Styrax benzoin*.
- Keria japonica* (L.) DC.  
Powder (20% in flour) NT caterpillars of *Prodenia litura*. 933B.
- Keyserlingia griffithii*, see *Sophora griffithii*.  
Kilken, see *Chondrus crispus*.
- Koelia flexuosa*, see *Pycnanthemum flexuosum*.
- Koeleruteria apiculata* Rehd. and Wilson.  
Ext. seeds T mosquito larvae. 645.
- Koeleruteria paniculata* Laxm.  
Ext. of seeds and leaves T mosquito larvae. 645.
- Kusso tree, see *Hagenia abyssinica*.
- Krigia biflora* (Walt.) Blake. (Cynthia).  
Ext. were not repellent to Japanese beetle. 933B.
- Kudzu vine, see *Pueraria hirsuta*.
- Kulit bontangor, see *Calophyllum spectabile*.
- Kweme nuts, see *Telfairia pedata*.
- Laburnum anagyroides*. (*Cytisus laburnum* L.; laburnum).  
Too toxic to human skin to be considered as practical house remedy; crude cytosine, NT eggs of moth; 5% chloroform ext. of seeds 100% T bean aphid and 25% ext. 80% T. 933B.
- Lachnanthes tinctoria* (Walt.) Ell. (*Gyrotheca tinctoria* (Walt.) Salisb.; redroot).  
Full-strength exts. from entire plant were repellent to Japanese beetle. 933B.
- Lactuca canadensis* L. (Wild lettuce).  
Ext. were not repellent to Japanese beetle. 933B.
- Lactuca virosa*. (Bitter lettuce).  
Ext. of leaves T mosquito larvae. 645.
- Lactuca* sp. (Lettuce).  
A spray, made by boiling 20 to 30 min. 1 lb. lettuce plants from which seed head has begun to shoot in 2 gal. water and strained, was recommended for eradicating cabbage moth and cabbage aphid in New South Wales. 933B.
- Ladyshipper, see *Cypripedium* sp.
- Lagenandra ovata* (L.) Thw. (*L. toxicaria* Dalz.).  
Used as insecticide in India. 933B.
- Lai-tung.  
Reported to contain rotenone. 759.
- Lambkill, see *Kalmia angustifolia*.
- La meh.  
Seeds reported to contain rotenone. 759.
- Lamium amplexicaule* L. (Dead nettle).  
Ext. were not repellent to Japanese beetle. 933B.
- Lancepod, see *Lonchocarpus* sp.
- Lantana camara* L.  
Ext. applied as sprays against adult mosquitoes were much inferior to standard mosquitocide. 933B.
- Larkspur, see *Delphinium* sp.
- Larkspur, field, see *Delphinium consolida*.
- Larkspur, low, see *Delphinium bicolor*.
- Larkspur, musk, see *Delphinium brunonianum*.
- Larkspur, rocket, see *Delphinium ajacis*.
- Larkspur, stavesacre, see *Delphinium staphisagria*.
- Larrea divaricata* Cav. (*Covillea tridentata* (DC.) Vail.; creosotebush).  
Ext. of leaves 20% T mosquito larvae and exts. of stems and roots NT. 643A, 933B.
- Lasiosiphon eriocephalus* Decaisne.  
Bark used as fish poison and as insecticide in India; exts. of fruit in Mysore had varying toxic properties against aphids. 933B.
- Laurel, see *Laurus nobilis*.
- Laurel, Alexandrian, see *Calophyllum inophyllum*.
- Laurel, California, see *Umbellularia californica*.
- Laurel, mountain, see *Kalmia latifolia*.
- Laurel, spurge, see *Daphne mezereum*.
- Lauracera*, oil of.
- 100% T *Lucilia cuprina* larvae. 849.
- Laurus nobilis*. (Laurel).  
Ext. of leaves NT mosquito larvae. 645.
- Laurus sassafras*, see *Sassafras variifolium*.
- Lavandula officinalis* Chaix. (*L. angustifolia* Mill.; *L. spica* L.; *L. vera* DC.; true lavender).  
Acetone ext. of leaves, stems, and flowers NT mosquito larvae; oil 51-80% T red spider and cotton aphids, 40-59% T *Lucilia cuprina* larvae, T clothes moth, and strongly repellent to cockroach; flowers scattered on clothes are worthless for moth control. 42, 643A, 645, 849, 933, 933B, 1024, 1025, 1176, 1220, 1228, 1268.
- Lavandula* spp.  
Used with success in war time against infestations of lice and mites; in Belgium used to repel mosquitoes. 933B.
- Lavender, see *Lavandula officinalis*.
- Lavender-cotton, see *Santolina chamaecyparissus*.
- Lavender, sea, see *Limonium carolinianum*.
- Lavender, true, see *Lavandula officinalis*.
- Lawsonia inermis*. (Egyptian henna).  
Acetone ext. of leaves NT mosquito larvae. 645.
- Leatherwood, southern, see *Cyrilla racemiflora*.
- Lechuguilla, see *Agave lecheguilla*.
- Ledum groenlandicum* Order. (*L. latifolium* Ait.; Labrador-tea).  
T lice, insects, etc. 933.
- Ledum palustre* L. (Crystal-tea).  
Leaves and twigs used as insecticide. 933.
- Leek, see *Allium ampeloprasum porrum*.
- Lemon, oil of, see *Citrus limon*.
- Leontodon tuberosus* L. (*Thrincia tuberosa* DC.).  
NT flies and fleas. 933.
- Leonurus cardiaca* L. (Common motherwort).  
Ext. were not repellent to Japanese beetle. 933B.
- Lepidium ruderalis* L. (Peppergrass).  
Recommended against flea beetles in Austria; used as insecticide in Japan; used as fumigant against aphids and mites in hothouses. 933B.
- Lepidium virginicum* L. (Wild peppergrass).  
Ext. were not repellent to Japanese beetle. 933B.
- Lettuce, see *Lactuca* sp.
- Lettuce, bitter, see *Lactuca virosa*.
- Lettuce, water, see *Pistia stratiotes*.
- Lettuce, wild, see *Lactuca canadensis*.
- Leucanthemum vulgare*, see *Chrysanthemum leucanthemum*.
- Leucas cephalotes* (Roth) Spreng. (*L. capitata* Desf.).  
Used in India as external application for scabies. 933B.
- Leucas martinicensis* R. Br.  
In Nigeria plant is burned for purpose of driving away mosquitoes. 933B.
- Leucothoe crayana* Maxim.  
Ext. of dried leaves sprayed on larvae of various



- insects in Japan. Some samples were fairly toxic to *Phaedon brassicae*, 50 to 80%, but most of them were not effective enough to be promising as insecticides. 933B.
- Levisticum officinale* Koch. (Lovage).  
Acetone ext. of leaves and stems NT mosquito larvae. 645.
- Liatris spicata* (L.) Willd. (Spike gayfeather).  
Exts. were not repellent to Japanese beetle. 933B.
- Licorice, common, see *Glycyrrhiza glabra*.
- Licorice, Spanish, see *Glycyrrhiza glabra typica*.
- Linaloe or lingaloe, oil of, see *Bursera penicillata*.
- Ligustrum vulgare* L. (European privet).  
Exts. were not repellent to Japanese beetle. 933B.
- Lilac, common, see *Syringa vulgaris*.
- Lilium superbum* L. (Turkscap lily).  
Exts. were not repellent to Japanese beetle. 933B.
- Lily, day, see *Hemerocallis fulva*.
- Lily-of-the-valley, see *Convallaria majalis*.
- Lily, trout, see *Erythronium americanum*.
- Lily, turkscap, see *Lilium superbum*.
- Lime, see *Citrus aurantifolia*.
- Limonium carolinianum* (Walt.) Britton. (Sea lavender).  
Exts. were not repellent to Japanese beetle. 933B.
- Linaria vulgaris* Mill. (*L. linaria* Karst.; *Antirrhinum linaria* L.; common toadflax; butter and eggs).  
Expressed juice mixed in milk T flies; acetone ext. of flowers and leaves NT mosquito larvae. 645, 933.
- Linden, European, see *Tilia europaea*.
- Linden, silver, see *Tilia tomentosa*.
- Lindera benzoin* (L.) Blume. (*Benzoin aestivale* (L.) Nees; spicebush).  
Acetone ext. of buds 65% T mosquito larvae; exts. were not repellent to Japanese beetle. 643A, 933B.
- Linoyris vulgaris*. (*Aster linoyris* Bernh.).  
Heads NT flies. 933.
- Linum usitatissimum* L. (Flax).  
Linseed oil is derived from flax seeds which are nonpoisonous, although when oil is properly used it has some insecticidal properties; boiled linseed oil is attractive for *Lesioderma serricorne*; sulphated linseed oil T as mothproofing agent. 933B, 980P, 1013, 1176.
- Lippia dolcis* Trevir. (Lippin).  
Exts. were not repellent to Japanese beetle. 933B.
- Lippia triphylla* (L'Her.) Kuntze. (*L. citriodora* H. B. K.).  
Oil T red spider and cotton aphid. 933B.
- Liquidambar styraciflua L. (Sweet gum).  
Exts. were not repellent to Japanese beetle. 933B.
- Liriodendron tulipifera* L. (Tulip tree).  
Water ext. of leaves 85% T mosquito larvae. 643A.
- Litsea glaucescens* H. B. K.  
Powdered leaves used against ants. 933B.
- Litsea guatemalensis* Mez.  
Powdered leaves used against ants. 933B.
- Lizardtail, common, see *Saururus cernuus*.
- Lobelia cardinalis* L. (Cardinal flower).  
Exts. were not repellent to Japanese beetle. 933B.
- Lobelia inflata*. (Indian tobacco).  
T aphids and other insects; acetone ext. of whole plant NT mosquito larvae. 645, 1144.
- Lobelia tupa* L.  
Used as fish poison. 795.
- Locoweeds, see *Astragalus* spp.
- Locust, common, see *Robinia pseudacacia*.
- Logwood, see *Hemstoxylon campechianum*.
- Lomatia silaifolia* (Sm.) R. Br. (Parsley fern).  
Reported in New South Wales that flowers were poisonous to flies, the number in room being greatly diminished when a bunch of flowers was put in fireplace. 933B.
- Lonchocarpus atropurpureus*, see *Lonchocarpus* spp.
- Lonchocarpus chrysophyllus* Kleinl.  
Roots reported to contain rotenone. 759, 795.
- Lonchocarpus densiflorus* Benth.  
Used as fish poison. 795.
- Lonchocarpus denudatus* Benth.  
Roots used as fish poison. 795.
- Lonchocarpus floribundus* Benth. (*L. nitidulus* Benth.).  
Leguminous plant reported to contain rotenone. 759, 795.
- Lonchocarpus guaricensis* Pittier.  
Used as fish poison. 795.
- Lonchocarpus guatemalensis*, see *Lonchocarpus* spp.
- Lonchocarpus honduricus*, see *Lonchocarpus* spp.
- Lonchocarpus latifolius* (Willd.).  
Used as fish poison. 795.
- Lonchocarpus madagascariensis* (Roivin) R. Viguier.  
Leguminous plant reported to contain rotenone. 759.
- Lonchocarpus martyni* A. C. Smith.  
Stems reported to contain rotenone. 759.
- Lonchocarpus negrensis* Benth. (*Derris amazonica* Killip).  
Roots reported to contain rotenone. 759.
- Lonchocarpus nireu*, see *L. utilis*.
- Lonchocarpus nitidulus*, see *Lonchocarpus floribundus*.
- Lonchocarpus peckholtii* Wawra.  
Used as fish poison. 795.
- Lonchocarpus rariflorus* Mart.  
Roots reported to contain rotenone. 759, 795.
- Lonchocarpus sericeus* H. B. K.  
Roots and leaves reported to contain rotenone. 759.
- Lonchocarpus uruca* Killip and Smith.  
Roots, stems, and leaves reported to contain rotenone. 759, 795.
- Lonchocarpus utilis* A. C. Smith. (*L. nireu* (Aubl.) DC.).  
Roots, stems, and leaves reported to contain rotenone. 759, 795.
- Lonchocarpus velutinus* Benth.  
Roots reported to contain rotenone. 759.
- Lonchocarpus violaceus* (Jacq.) H. B. K.  
Used as fish poison. 795.
- Lonchocarpus* spp. (*L. atropurpureus* Benth.? or *L. guatemalensis* Benth.?; *L. honduricus* Benth.?; Timbo; Timbo blanco; Timbo pao; Bejuco de Guanano; red hair, cube, etc.; lancepod).  
Various species of *Lonchocarpus* used as fish poison; roots contain rotenone, T many insects; T as mothproofing agent. 759, 795, 826P, 927P, 933, 1175, 1179.
- Lonicera japonica* Thunb. (Japanese honeysuckle).  
Exts. were not repellent to Japanese beetle. 933B.
- Lookingglass, venus, see *Specularia perfoliata*.
- Loosestrife, purple, see *Lythrum salicaria*.
- Lotus, American, see *Nelumbo lutea*.
- Lousewort, see *Delphinium staphisagria*.
- Lovage, see *Levisticum officinale*.
- Luffa sp. (Dish-cloth gourd).  
Acetone ext. of seeds T mosquito larvae. 645.
- Lungwort, common, see *Pulmonaria officinalis*.
- Lupine, see *Lupinus niger*.
- Lupine, sun-dial, see *Lupinus perennis*.
- Lupinus albus* L.  
Alkaloidal ext. of seeds used for mothproofing purposes. 933B.
- Lupinus angustifolius* L.  
Alkaloidal ext. of seeds used for mothproofing purposes. 933B.
- Lupinus crotalaroides* Mart.  
Used as fish poison. 795.
- Lupinus luteus* L.  
Alkaloidal ext. of seeds used for mothproofing purposes. 933B.
- Lupinus mutabilis* Sweet.  
Used as fish poison. 795.
- Lupinus niger* L. (Lupine).  
Alkaloidal ext. of seeds used for mothproofing. 188P, 933B, 1175, 1176, 1257P, 1258P, 1261P.
- Lupinus perennis* L. (Sun-dial lupine).  
Exts. from plant were not repellent to Japanese beetle. 933B.
- Lupinus* spp.  
Used as mothproofing agent. 1166P, 1179.
- Lycium halimifolium* Mill. (Common matrimony-vine).  
Used as dust T roaches but only ST tent caterpillars; used as stomach poison T grasshoppers; water ext. NT bees. 933.
- Lycoperdon bovista*, see *Calvatia gigantea*.
- Lycoperdon caelatum*, see *Calvatia gigantea*.
- Lycoperdon gigantum*, see *Calvatia gigantea*.
- Lycopersicon esculentum* Mill. (*L. lycopersicum* Karst.; *Solanum lycopersicum* L.; tomato).  
Tomato foliage may be placed round fruit trees to

- prevent access of insects; infusion of herb serves as insecticide for syringing. 933.
- Lycopersicum* sp. (Mixture of tomato sap).  
Used as plant injection; effective on infestation of *Eriosema lanigerum*. 175.
- Lycopodium complanatum* L. (Ground cedar).  
Decoction T lice. 933.
- Lycopodium selago* L. (Fir clubmoss). 933.
- Lycopus virginicus* L. (Betony; bugle weed).  
Acetone ext. of leaves T mosquito larvae; ext. of whole plant NT mosquito larvae. 643A, 645.
- Lyonia ovalifolia* (Wall.) Drude. (*Pieris ovalifolia* (Wall.) D. Don.; *Andromeda ovalifolia* Wall.).  
In India young leaves and buds used to kill insects, and an infusion was employed in cutaneous diseases. 933, 933B.
- Lysimachia zenun-graecum* Hance.  
Gave low mortality to several insects. 837.
- Lysimachia nummularia* L. (Moneywort).  
Leaves and flowers, steeped in oil, destroy insects and worms which infest granaries. 933.
- Lysimachia terrestris* (L.) B. S. P. (Swampcandle).  
Exts. were not repellent to Japanese beetle. 933B.
- Lythrum salicaria* L. (Purple loosestrife).  
Exts. were not repellent to Japanese beetle. 933B.
- Mace oil.  
Effective attractant for codling moth. 1423A.
- Macleanya cordata*. (*Bocconia cordata* Willd.; pink plume-poppy).  
Decoction used in Japan as insecticide. 837, 933.
- Maclura pomifera* (Raf.) Schneid. (*Toxylon pomiferum* Raf.; osage-orange).  
Commercial ext. was repellent to Japanese beetle. 933B.
- Macrolobium acaciifolium* Benth.  
Used as fish poison. 795.
- Madhura butyracea* (Roxb.) Macbride. (*Bassia butyracea* Roxb.).  
Bark used in India as fish poison and as insecticide. 933B.
- Madhura latifolia* (Roxb.) Macbride. (*Bassia latifolia* Roxb.; malua; mohwa).  
5% Acoh. ext. of stem bark 100% T *Plutella maculipennis*, 70% T *Prodenia litura* and *Crocidoloma binotalis*, and 100% T *Euproctia fraterna*; 5% ext. of leaves 100% T first species, 85% T second, and 100% T third and fourth species; powdered stem bark 80% T *Callosobruchus chinensis*. 933B.
- Madhura longifolia* (L.) Macbride. (*Bassia longifolia* L.; mohwah meal; mohwah tree).  
Decoction of bark used as remedy for itch; T earthworms; ST larvae of Japanese beetle. 493A, 933B.
- Madhura* sp. 933.
- Madumbo, see *Glicicidia sepium*.
- Magnolia virginiana* L. (Sweetbay).  
Exts. from fresh leaves were more or less repellent to Japanese beetle. 933B.
- Magonia glabrata* St. Hil.  
Stems and leaves used as fish poison. 795.
- Magonia pubescens* St. Hil.  
Roots, leaves, bark, and seeds used as fish poison. 795.
- Mahonia aquifolium* Nutt. (*Berberis aquifolium* Pursh.; Oregon hollygrape).  
Infusion of roots effective against fly larvae but was inefficient. 933.
- Mahua, see *Madhura latifolia*.
- Maianthemum canadense* Desf. (*Unifolium canadense* (Desf.) Green).  
Exts. were repellent to Japanese beetle. 933B.
- Maidenhair, southern, see *Adiantum capillus-veneris*.
- Malabar-nut, see *Justicia adhatoda*.
- Mallotus philippinensis* (Lam.) Muell. Arg. (Kamala tree; monkeyface tree).  
Acetone ext. of hairs of capsules T mosquito larvae. 645.
- Malus sylvestris* Mill. (Apple).  
Oil strongly attractive to cockroaches and is attractive bait. 933B.
- Mammes americana* L.  
Exts. of roots, shoots, and branches of plant from Trinidad ST; exts. of plant from West Indies not sufficiently T bean aphid to warrant further investigation. 933B.
- Mangifera indica* L. (Mango).  
Gum resin, mixed with lime juice or oil, used as cure for scabies, and powdered flowers used for fumigating mosquitoes. 933B.
- Manihot dulcis* (Gmel.) Pax. (Sweet cassava).  
Tapioca was employed as constituent of an adhesive composition which might be used for mothproofing. 933B.
- Manihot esculenta* Crantz.  
Used as fish poison. 795.
- Maple, Norway, see *Acer platanoides*.
- Maple, red, see *Acer rubrum*.
- Maple, rock, see *Acer saccharum*.
- Maple, silver, see *Acer saccharinum*.
- Maple, sugar, see *Acer saccharum*.
- Maple, sycamore, see *Acer pseudo-platanus*.
- Maravitti tree, see *Hydnocarpus wightianus*.
- Margarita, see *Karwinskiae humboldtiana*.
- Margassa oil.  
NT *Lucilia cuprina*, *L. sericata*, and *Caliphora stygia*. 918.
- Marguerite, see *Chrysanthemum frutescens*.
- Marigold, African, see *Tagetes erecta*.
- Marigold, corn, see *Chrysanthemum segetum*.
- Marigold, French (harmony), see *Tagetes patula*.
- Marigold, marsh, see *Caltha palustris*.
- Marigold, yellow pigny, see *Tagetes patula*.
- Marjoram, sweet, see *Origanum vulgare*.
- Marrubium vulgare* L. (Horsehound).  
Water ext. of whole plant 0-30% T mosquito larvae. 643A.
- Maruta cotula*, see *Anthemis cotula*.
- Marvel of Peru, see *Mirabilis jalapa*.
- Masterwort, see *Imperatoria ostruthium*.
- Mastic tree, see *Pistacia lentiscus*.
- Matico, see *Piper elongatum*.
- Matricaria chamomilla*. (*Chrysanthemum chamomilla* Bernh.; *Chamomilla vulgaris* S. F. Gray; *C. officinalis* Koch; Hungarian chamomile; German false-chamomile).  
Water ext. of leaves and stem 5% T mosquito larvae; acetone ext. of whole plant T mosquito larvae; flower heads T several species of insects, similar to pyrethrum. 643A, 645, 933.
- Matricaria discoidea*, see *M. matricarioides*.
- Matricaria inodora* L. (Scentless false-chamomile).  
Flowers have benumbing effect on flies. 933.
- Matricaria matricarioides* (Less.) Porter. (*M. discoidea* DC; *M. suaveolens* Buchenau).  
Decoction NT *Malacosoma neustria*. 933.
- Matricaria parthenium*, see *Chrysanthemum parthenium*.
- Matricaria suaveolens*, see *M. matricarioides*.
- Mattimony-vine, common, see *Lycium halimifolium*.
- Mayapple, common, see *Podophyllum peltatum*.
- Mayweed, see *Anthemis cotula*.
- Meadowrue, see *Thalictrum polygamum*.
- Medeola virginiana* L. (Cucumber root).  
Exts. were not repellent to Japanese beetle. 933B.
- Medicago lupulina* L.  
Gave low mortality to several species of insects. 837.
- Meibomia laburnifolia* (Poir.) Kuntze. (*Desmodium laburnifolium* DC.).  
Leaves used as insecticide. 933.
- Meibomia triflora*, see *Desmodium triflorum*.
- Melaleuca leucadendron* L. (Also other species of *Melaleuca*, oil of cajuput).  
Oil T *Lucilia cuprina* larvae. 849, 933B.
- Melampyrum lineare* Desr. (Cowwheat).  
Exts. were not repellent to Japanese beetle. 933B.
- Melanthium muscativum*, see *Amanthium muscativum*.
- Melanthium virginicum* L. (Bunchflower).  
Roots used as fly poison. 933.
- Melia azadirachta* L. (*Azadirachta indica* Juss.; *Azadirachta delateria* Medic.; nim tree).  
Furniture made from its wood is not attacked by insects. 933.
- Melia azedarach* L. (*Azedarach commelini* Medic.; *A. odoratum* Noronha; chinaberry).  
Decoction of berries prevents depredations of black grub or cutworm; poultices of flowers T lice; decoctions and acoh. exts. from leaves, twigs, and berries effective against cotton caterpillars, but failed to be efficient. 933.

- Melia dubia* Cav. (*M. superba* Roxb.; *M. robusta* Roxb.).  
Juice of green fruit, with sulfur and curds, used as application for scabies and sores infested with maggots. 933B.
- Melilotus alba* Desr. (White sweetclover).  
Exts. were not repellent to Japanese beetle. 933B.
- Melilotus altissima* Thuill. (Clover).  
Mosquitoes in Egypt fed on juice of highly scented blossoms which contain coumarin. This might be responsible for immunity from malaria in these areas. 933B.
- Melilotus officinalis* (L.) Lam. (Yellow sweetclover).  
Saturated soln. of coumarin in sugar soln. NT housefly; natives of Bessarabia kept their houses free from moths by keeping bunches of this plant in all rooms. 933B.
- Melinis minutiflora* Beauv. (Molasses grass).  
Whole plant reported insecticidal in East Africa; fresh leaves are covered with glandular hairs, which exude viscid oil, said to repel mosquitoes and tsetse flies; probably useful as tick eradicator. 933B.
- Melissa officinalis* L. (Balm).  
Acetone and water ext. of leaves and stem NT mosquitoes. 643A.
- Melodorum latifolia* (Bl.) Hook. and Thomas. (*Uvaria latifolia* Brin).  
Exts. of roots NT bean aphids. 933B.
- Melon. (Honey dew).  
Acetone ext. of seeds T mosquito larvae. 645.
- Menispermum canadense*. (Yellow parilla).  
Acetone ext. of root 35% T mosquito larvae; less toxic to aphids than nicotine sulfate, but as stomach poison and repellent for some other insects it is more effective. 643A, 1144.
- Menispermum cocculus*, see *Anamirta cocculus*.
- Menispermum lacunosum*, see *Anamirta cocculus*.
- Mentha arvensis* L. (Field mint).  
Exts. were not repellent to Japanese beetle. 933B.
- Mentha canadensis* L. (American wild mint).  
Exts. were not repellent to Japanese beetle. 933B.
- Mentha longifolia* (L.) Huds. (*M. sylvestris* L.).  
Tested in Russia against red spider and cotton aphid. Toxicity increased with concentration, and oil was repellent to aphids. 933B.
- Mentha piperita* L. (Peppermint).  
Acetone ext. of leaves, stems, and spikes 10% T mosquito larvae; oil ST *Lucilia cuprina* larvae. 645, 643A, 849.
- Mentha pulegium* L. (European pennyroyal; *Pulegium vulgare* Mill.). 933.
- Mentha spicata* L. (*M. viridis* L.; spearmint).  
Oil repellent to screwworm; exts. were not repellent to Japanese beetle; exts. of leaves and stems NT mosquito larvae; alch. ext. NT cotton caterpillars. 643A, 849, 933.
- Mentha sylvestris*, see *M. longifolia*.
- Mentha viridis*, see *M. spicata*.
- Menyanthes trifoliata*. (Buckbean).  
Acetone and water ext. of leaves NT mosquito larvae. 643A.
- Merrybells, wood, see *Uvularia perfoliata*.
- Mesua ferrea* L. (*M. spiciosa* Choisy.).  
Oil of seeds found useful in treatment of itch. 933B.
- Mgagana, see *Agavea salicifolia*.
- Mhayu, see *Dolichos pseudopachyrhizus*.
- Michelia champaca* L. (*M. azantica* Wall.).  
Flowers useful in leprosy, boils, and itch. 933B.
- Microsechium helleri* (Peyr.) Cogn.  
Useful in destroying lice and underground insects. 933.
- Mignonette, see *Reseda odorata*.
- Milkweed, see *Aclepias syriaca*.
- Milletia auriculata* Baker.  
Root used as insecticide. 933.
- Milletia dura* Dunn.  
Roots, stems, and seeds reported to contain rotenone. 759.
- Milletia ferruginea* (Hochst.). (Berbera).  
Stems, petioles, and leaves reported to contain rotenone. 759.
- Milletia ichthyocarpa* Bureau and Franch.  
Seeds reported to contain rotenone. 759.
- Milletia laurentii* deWild.  
Roots, stems, and leaves reported to contain rotenone. 759.
- Milletia mannii* Baker.  
Roots, stems, and leaves reported to contain rotenone. 759.
- Milletia nitida* Benth.  
Leaves and seeds used for insect control. 837.
- Milletia pachycarpa* Benth.  
Seeds far more toxic than roots, stems being least toxic; alch. ext. of roots T silkworm. 759, 837.
- Milletia piscidia* (Roxb.) Wight.  
Powder of bark and flowers used as fish poison and insecticide in India. 933B.
- Milletia pulchra* (Benth.) Kurz.  
Gave low mortality to several insects. 837.
- Milletia reticulata* Benth.  
Roots reported to contain rotenone. 759.
- Milletia tauwanii* Hayata.  
Roots reported to contain rotenone. 759.
- Milletia ussarensis* Taub. (*Derris tauwaniana* Matsum).  
Seeds reported to contain rotenone. 759.
- Milletia versicolor* Welw.  
Roots, stems, and leaves reported to contain rotenone. 759.
- Milletia* sp.  
Stems NT several species of insects. 837.
- Mimosa cinerea*, see *Dichroscaphys cinerea*.
- Mimulus* sp.  
Acetone ext. of leaves and stems NT mosquito larvae. 645.
- Mint, American wild, see *Mentha canadensis*.
- Mint, field, see *Mentha arvensis*.
- Mint, pepper, see *Mentha piperita*.
- Mint, spear, see *Mentha spicata*.
- Mint, stone, see *Cunila origanoides*.
- Mirabilis jalapa* L. (Marvel of Peru).  
Odor of flowers was said to keep away mosquitoes at night. 933B.
- Mistletoe, American, see *Phoradendron flavescens*.
- Mitchella repens* L. (Partridgeberry).  
Exts. were not repellent to Japanese beetle. 933B.
- Mockorange, sweet, see *Philadelphus coronarius*.
- Moetorpoe or Koetorpoe.  
Water ext. of wood of moetorpoe proved efficient, while water ext. of leaves inefficient against silkworms. 933.
- Mohwa, see *Madhuca latifolia*.
- Mollugo cerviana Ser.  
Plant mixed with oil made into ointment for scabies and other cutaneous diseases. 933B.
- Mullugo spargula L.  
Juice of plant applied as remedy for itch and other skin diseases. 933B.
- Momordica charantia* L. (Balsam-pear).  
In India whole plant mixed with cinnamon, pepper, rice, and oil of *Hydnocarpus inebrians* used as ointment for psora, scabies, and other cutaneous diseases. 933B.
- Momordica schimperiana* Steud. (Turu).  
Fruit listed as insecticidal in East Africa. 933B.
- Monarda punctata* L. (Spotted beebalm).  
Alch. ext. from leaves NT cotton caterpillars. 933.
- Monowort, see *Lysimachis nummularia*.
- Monkshood, Columbia, see *Aconitum columbianum*.
- Monoballi, see *Cupania* sp.
- Morus sp. (Mulberry).  
Commercial ext. was not repellent to Japanese beetle. 933B.
- Mosquito plant, see *Ocimum viride*.
- Moss, fir club, see *Lycopodium juniperinum*.
- Moss, haircap, see *Polystichum juniperinum*.
- Moss, Irish, see *Chondrus crispus*.
- Moss, pearl, see *Chondrus crispus*.
- Moss, salt rock, see *Chondrus crispus*.
- Motherswort, common, see *Leonurus cardiaca*.
- Mowra-mahua tree, see *Madhuca longifolia*.
- Mowrah, see *Bassia longifolia*.
- Msharaka, see *Sapium ellipticum*.
- Muellera moniliformis* L. f.  
Bark used as fish poison. 795.
- Mugwort, see *Artemisia vulgaris*.
- Mulberry, see *Morus* sp.

- Mullein, clasping, see *Verbascum phlomoides*.  
 Mullein, flannel, see *Verbascum thapsus*.  
 Mullein, moth, see *Verbascum blattaria*.  
 Mullein, turkey, see *Eremocarpus setigerus*.  
 Mullein, wool, see *Verbascum thapsiforme*.  
*Mondula pauciflora* Baker.  
 Roots reported to contain rotenone. 759.  
*Mundules sericea* (Willd.) A. Cheval. (*M. suberosa* Benth.; "Suppli").  
 Bark, debarked stem, leaf, and root 100% T chrysanthemum aphids; stems (bark) reported to contain rotenone. 759, 1381.  
 Muraballi, see *Cupania* sp.  
*Musa sapientum* L. (Banana).  
 Oil attractive bait and attractive to cockroaches. 933B.  
 Muskmelon, see *Cucumis melo*.  
 Mustard, see *Brassica* spp.  
 Mustard, black, see *Brassica nigra*.  
 Mustard, yellow English, see *Brassica hirta*.  
*Myrica carolinensis*, see *M. pensylvanica*.  
*Myrica cerifera* L. (Southern waxmyrtle).  
 Bark of root 35% T mosquito larvae. 558A, 643A, 933.  
*Myrica gale* L. (Candleberry myrtle).  
 Swedes employed strong decoction to kill bugs and lice, and to cure itch. 933B.  
*Myrica pensylvanica*. (*M. carolinensis* Mill.; northern bayberry).  
 Exts. were not repellent to Japanese beetle. 933B.  
*Myrica peregrina* (L.) Kuntze. (*Comptonia peregrina* (L.) Coult.; sweetfern).  
 Acetone ext. of leaves and stems NT mosquito larvae; exts. were not repellent to Japanese beetle. 645, 933B.  
*Myristica fragrans* Houtt. (Common nutmeg).  
 Oil T *Lucilia cuprina* larvae; odor of nutmeg fatal to mosquitoes if air is saturated. 849, 933.  
*Myristica* sp.  
 Powders and volatile constituents T ants. 643A.  
 Myrtle, candleberry, see *Myrica gale*.  
 Nami, see *Dioscorea cylindrica*.  
 Neo-yang-wha, see *Rhododendron hunnewellianum*.  
*Narcissus pseudonarcissus* L. (Common daffodil).  
 Exts. were not repellent to Japanese beetle. 933B.  
*Nasturtium*, common, see *Tropaeolum majus*.  
*Nauclia cordifolia*, see *Adina cordifolia*.  
 Necoetiae.  
 Water ext. of leaves T silkworms. 933.  
*Nelumbo lutea* (Willd.) Pers. (*Nelumbium luteum* Willd.; American lotus).  
 T cockroaches. 933.  
*Neorautanenia fistulifolia* (Benth.) C. A. Sm. (*Rhynchosia fistulifolia* Benth.).  
 Alch. and aqueous exts. of ground roots T bean aphid; 1% alch. ext. 100% T aphids. 933B.  
*Nepeta cataria* L. (Catnip).  
 Acetone ext. of leaves and stems 30% T mosquito larvae; oil T *Lucilia cuprina* larvae. 643A, 849.  
*Nepeta hederacea*, see *Glechoma hederacea*.  
*Nerium indicum* Mill. (*N. odorum* Soland; sweet oleander; kaner).  
 Water exts., macerated juices, and dusts of leaves tested against citrus psyllids, aphids, lucerne weevil grubs, and adult beetles. Ext. roots more poisonous than leaves; 5% alch. ext. leaves 80% T *Prodenia litura*, *Euproctis fraterna*, and *Pericallia ricini*, and 70% T *Crocidolomia binotalis*. 933B.  
*Nerium oleander* L. (Common oleander).  
 Bark used for the destruction of rats and insects; NT aphids. 933.  
 Nettle, dead, see *Lamium amplexicaule*.  
*Neurolema lobata* (L.) R. Br. (Erb-a-pique).  
 Exts. of leaves and stems of this fish poison plant from Antigua ST bean aphid. 933B.  
*Nicandra physalodes* Pers. (*Atropa physalodes* L.; *Physalodes peruvianum* (Mill.) Kuntze; *P. physalodes* Britton; Peruvian groundcherry).  
 Used as fly poison. 933.  
*Nicotiana glauca* Graham. (Tree tobacco).  
 Decoction of leaves with soap ST *nasturtium* aphids, while powdered leaves NT. 933.  
*Nicotiana rustica* L. (Artec tobacco).  
 Effective stomach poison against *Malacosoma neu-tria*. 933.  
*Nicotiana sylvestris* Speg. and Comes.  
 This weed contains nicotine, an alkaloid of proved insecticidal value and of greater potency than nicotine for control of certain insects. 933B.  
*Nicotiana tabacum* L. (Common tobacco).  
 T chrysanthemum and nasturtium aphids and *Aphis pomi*. 933.  
*Nicotiana* sp. (Mixture of aqueous tobacco).  
 Ext. and 1% borac acid used as injection against aphids; used as mothproofing agent; NT clothes moth (66). 42 66, 175, 1077, 1176, 1268, 1479.  
*Nicotiana* spp. (Mixture of tobacco sap).  
 Used as plant injection; has some effect on infestation of *Eriotoma lanigerum*. 175.  
*Nigella arvensis* L. (Fennel flower).  
 Natives of Hindustan sprinkled seeds among clothes as preservative against destructive insects; exts. of dried seeds more or less repellent to Japanese beetle; alch. exts. and water suspensions NT caterpillars. 933B.  
 Nightshade, bitter, see *Solanum dulcamara*.  
 Nightshade, black, see *Solanum nigrum*.  
*Nima quassoides*, see *Picrasma quassoides*.  
 Nin tree, see *Melia azadirachta*.  
*Niota commersoni*, see *Samadera indica*.  
*Niota pentapetala*, see *Samadera indica*.  
 Niquitau (niquivau), see *Baccharis floribunda*.  
*Nissolia fruticosa* Jacq.  
 Used as fish poison. 795.  
 Nochi, see *Vitex negundo*.  
 Nunardi, see *Blumea lacera*.  
*Nuphar advena* (Ait.) Ait. f. (*Nymphaea advena* Ait.; spatterdock).  
 Exts. were not repellent to Japanese beetle. 933B.  
 Nutmeg, see *Myristica* spp.  
 Nutmeg, common, see *Myristica fragrans*.  
*Nymphaea advena*, see *Nuphar advena*.  
*Nyssa sylvatica* Marsh. (Tupelo).  
 Acetone ext. of leaves 60% T mosquito larvae; exts. were not repellent to Japanese beetle. 933B.  
 Oak, African, see *Oldfieldia africana*.  
 Oak, black, see *Quercus velutina*.  
 Oak, common red, see *Quercus rubra*.  
 Oak, scarlet, see *Quercus coccinea*.  
 Oak, white, see *Quercus alba*.  
*Ocimum basilicum* L. (Sweet basil; common basil).  
 Oil 95-100% T mosquito larvae; acetone ext. of leaves and stems T mosquito larvae; whole plant NT as contact poison to mosquito larvae. 643A, 645, 701F.  
*Ocimum canum* Sims.  
 5% Alch. ext. of whole plant 50% T caterpillars; T fleas. 933B.  
*Ocimum gratissimum*.  
 Used in Haiti as general insecticide. 933B.  
*Ocimum sanctum* L. (Sacred basil).  
 Dried leaves were effectual means of dislodging maggots in India. 933B.  
*Ocimum viride* Willd. (Basil; mosquito plant).  
 Believed to be mosquito repellent, but evidence was not convincing. 933B.  
*Oenanthe crocata* L.  
 Alch. exts. of roots T larvae of *Pieris brassicae*. 933B.  
*Oldfieldia africana* Benth. and Hook. f. (African oak).  
 Bark and leaves used in Liberia as remedies for hair lice and crab lice. 933B.  
 Old man, see *Artemisia abrotanum*.  
*Olea europaea* L. (Olive).  
 Oil recommended in elimination of head lice; sulphonated olive oil T as mothproofing agent. 26, 933B, 980F, 1176.  
 Oleander, common, see *Nerium oleander*.  
 Oleander, sweet, see *Nerium indicum*.  
 Olibanum tears, white.  
 Acetone ext. of whole plant NT mosquito larvae. 645.  
 Olive, see *Olea europaea*.  
 Onion, garden, see *Allium cepa*.  
 Onion, sea, see *Urginea maritima*.  
*Oenoclea sensibilis* L. (Sensitive fern).

- Acetone ext. of rhizome 10% T mosquito larvae. 643A.
- Opomaea purpurea* (L.) Roth.  
Decoctions of fresh leaves and young shoots used against aphids, scale insects, caterpillars, and flea beetles. 933B.
- Opuntia humifusa* Raf. (Pricklypear).  
Exts. were not repellent to Japanese beetle. 933B.
- Orange, see *Citrus sinensis*.  
Orange oil, see *Phenacoccus gossypii*.  
Orchid, white fringe-, see *Habenaria blephariglotis*.  
*Oreodaphne californica*, see *Umbellularia californica*.  
*Origanum hirtum* Link.  
Oil was of no value as repellent or attractant to screwworm. 933B.
- Origanum vulgare* L. (Sweet marjoram).  
Acetone ext. of whole plant 5% T mosquito larvae; oil 50% T mosquito larvae at 50 p.p.m. and 95% T at 100 p.p.m.; oil T *Lucilia cuprina* larvae. 643A, 849.
- Ormoscirtum glabrum* T. and B.  
Reported to contain rotenone. 759.
- Ornithogalum umbellatum* L. (Star-of-Bethlehem).  
Exts. were not repellent to Japanese beetle. 933B.
- Oreonium aquaticum* L. (Golden club).  
Exts. from plants were not repellent to Japanese beetle. 933B.
- Orris-root, see *Iris florentina*.  
Orris-root, German, see *Iris germanica*.
- Oryza sativa* L. (Rice).  
Oil was attractive to oriental cockroach in 35 counts and repellent in 40 counts. 933B.
- Osage-orange, see *Maclura pomifera*.
- Osbeckia crinita* Benth.  
Gave low mortality to several species of insects. 837.
- Osmunda cinnamomea* L. (Cinnamon fern).  
Acetone ext. of rhizome NT mosquito larvae. 643A.
- Osmunda regalis* L. (Flowering fern).  
Acetone ext. of rhizome NT mosquito larvae. 643A.
- Ostrya virginiana* (Lam.) Wood.  
Acetone ext. of wood 65% T mosquito larvae. 643A.
- Ostrya virginiana* (Lam.) Wood.  
5% Exts. of stems and roots paralyzed 100% of bean aphid, 2% ext. of stems 70%, and of roots 90%, but leaves were NT; no part of plant compared with *Derris elliptica*. 933B.
- Ougeinia dalbergioides* Benth.  
Used as fish poison; exts. of leaves and bark NT bean aphid; 5% eth. ext. of stem bark 75% T *Plutella maculipennis*, 80% *Prodenia litura*, and *Crocidolomia vinotalis*, and 100% *Euproctis fraterna*; 5% ext. of leaves 100% T first, third, and fourth species, and 90% T second species; powdered stem bark used as dust 60% T beetles, powdered leaves 100% T. 933B.
- Ourosparia gambia*, see *Uncaria gambir*.
- Oxalis stricta* L. (Yellow wood-sorrel).  
Exts. were not repellent to Japanese beetle. 933B.
- Oxydendrum arboreum* (L.) DC. (Sourwood).  
Exts. were not repellent to Japanese beetle. 933B.
- Oxytelma esculentum* (L. f.) R. Br. (*Asclepias rosea* Roxb.).  
Milky sap in combination with turpentine said to be valuable cure for itch in Sind, India; milky sap used as wash for ulcers. 933B.
- Pachygone ovate* (Poir.) Miers.  
Used as insecticide in India. 933B.
- Pachyrhizus angulatus* Ruch.  
Ground seeds ST caterpillars of *Prodenia litura*. 933B.
- Pachyrhizus erosus* (L.) Urban. (Yam bean). T many insects. 627, 759, 795, 837.
- Pachyrhizus tuberosus* (Lamb.) Spreng.  
Tubers and beans contain poisonous resin which is active fish poison; seeds, in decoction or powder form, T vermin. 795, 833.
- Pagoda-tree, Japanese, see *Sophora japonica*.  
Paiapu, see *Stemona tuberosa*.
- Palaquium* sp.  
Seeds MT silkworm larvae and ST other insects. 837.
- Palm, carnauba, see *Copernicia cerifera*.  
Palm, sago, see *Cycas circinalis*.
- Palmetto, saw, see *Serenoa repens*.
- Pandanus tectorius* Parkins. (*P. odorifera* (Forsk.) Lyons; breadfruit tree).  
Flowers placed among clothes to repel moths and similar insects, as well as perfume them. 933B.
- Pandium edule* Reinw.  
Exts. from bark and leaves NT tent caterpillars. 933.
- Panicum antidotale* Retz. (*P. subulbidum* Kunth).  
In India smoke of burning plant used for fumigating wounds. 933B.
- Pansy, common, see *Viola tricolor*.
- Papaver somniferum* L. (Opium poppy).  
Pure tincture of opium, aqueous soln. of hydrochlorate of morphine, and aqueous soln. of codeine, each mixed with honey and fed to ants, had no effect on them; plants dipped in 300 cc. of water containing 0.3 gm. of morphine were fed to caterpillars, 50% T; 30% T body louse, but 77% of eggs did not hatch; narcotine NT bean aphid. 933B.
- Papaver* spp. (Poppy).  
Acetone ext. of flowers and stems T mosquito larvae; acetone ext. of seeds of Dutch poppy T mosquito larvae. 645.
- Papaw, see *Asimina* sp.
- Parietaria pensylvanica* Muhl. ex. Willd. (Pillitory).  
Exts. were not repellent to Japanese beetle. 933B.
- Parilla, yellow, see *Meispermum canadense*.
- Parosela barbata*, see *Dalea vulneraria*.
- Parsley, see *Petroselinum crispum*.
- Parsnip, see *Pastinaca sativa*.
- Parsnip, water, see *Sium suave*.
- Parthenocissus quinquefolia* (L.) Planch. (*Hedera quinquefolia* L.; *Vitis hederaea* Willd. (Kew); Virginia creeper).  
Leaves rubbed on infested area of apple tree, a week later tree was entirely free of woolly aphids. 933B.
- Partridgeberry, see *Mitchella repens*.
- Partridge-tree, see *Cassia fasciculata*.
- Pasqueflower, European, see *Anemone pulsatilla*.
- Passiflora incarnata* L. (Passion flower).  
Water ext. of whole plant 5% T mosquito larvae. 643A.
- Pastinaca sativa* L. (Parsnip).  
Exts. were not repellent to Japanese beetle. 933B.
- Patchouli, oil of, see *Pogostemon heyneanus*.
- Paulinia alata* G. Don.  
Stems and leaves used as fish poison. 795.
- Paulinia australis* St. Hil.  
Stems and leaves used as fish poison. 795.
- Paulinia carpopodea* Camb.  
Stems and leaves used as fish poison. 795.
- Paulinia cupana* H. B. K.  
Stems and leaves used as fish poison. 795.
- Paulinia cururu* L.  
Stems and leaves used as fish poison. 795.
- Paulinia elegans* Camb.  
Stems and leaves used as fish poison. 795.
- Paulinia fuscescens* H. B. K.  
Stems and leaves used as fish poison. 795.
- Paulinia macrophylla* H. B. K.  
Stems and leaves used as fish poison. 795.
- Paulinia meliifolia* Juss.  
Stems and leaves used as fish poison. 795.
- Paulinia pinnata* L.  
Ext. of leaves NT citrus aphids, and a 2% concentration 47.5% T aphids; stems and leaves used as fish poison. 795, 933B.
- Paulinia rubiginosa* Camb.  
Stems and leaves used as fish poison. 795.
- Paulinia seminuda* Radlk.  
Stems and leaves used as fish poison. 795.
- Paulinia thalictrofolia* Juss.  
Stems and leaves used as fish poison. 795.
- Paulinia trigona* Vell.  
Stems and leaves used as fish poison. 795.
- Pearb, see *Prunus persica*.
- Peasaut, see *Arachis hypogaea*.
- Pear, balsam, see *Momordica charantia*.
- Pear, common, see *Pyrus* sp.
- Pear, kiefer, see *Pyrus communis*.
- Pear, prickly, see *Opuntia humifusa*.
- Peepul tree, see *Ficus religiosa*.

- Peganum harmala** L.  
Roots used to kill lice in hair in India. 933B.
- Pelargonium crispum** L'Her. (Lemon geranium).  
Acetone ext. of leaves NT mosquito larvae. 645.
- Pelargonium odoratissimum** L. (Oil of geranium or of rose geranium).  
T red spider, cotton aphid, and *Lucilia cuprina* larvae. 643A, 840.
- Pelargonium zonale** Willd. (Geranium).  
Acetone ext. of leaves NT mosquito larvae. 643A, 645.
- Pelargonium** spp. (Geraniums).  
Rose geranium oil repellent to screwworms; flowers more attractive and more toxic to Japanese beetle than foliage; 2% concentration 51 to 80% T common red spider and cotton aphids. 933B.
- Pellitory, see *Parietaria pensylvanica*.
- Peltandra virginica** (L.) Kunth. (Virginia arrow-aroni).  
Exts. were not repellent to Japanese beetle. 933B.
- Pencil flower, see *Stylosanthes biflora*.
- Pennyroyal, American, see *Hedeoma pulegioides*.
- Pennyroyal, European, see *Mentha pulegium*.
- Pennyroyal, oil of, see *Hedeoma pulegioides*.
- Pepper, see *Piper* spp.
- Pepper, African or bird, see *Capsicum frutescens*.
- Pepper, black, see *Piper nigrum*.
- Pepper, cayenne, see *Capsicum frutescens*.
- Pepper, common red, see *Capsicum annuum*.
- Pepper, Japanese, see *Zanthoxylum piperitum*.
- Pepper, water, see *Polygonum hydropiper*.
- Pepper, white, see *Piper album*.
- Pepper, oil of, see *Piper nigrum*.
- Peppergum, see *Lepidium rudemale*.
- Peppercress, wild, see *Lepidium virginicum*.
- Peppermint, see *Mentha piperita*.
- Perilla frutescens** (L.) Britton. (Perilla).  
One of constituents of a patented insecticide was dried ground parts of this plant. 933B.
- Persicaria hydropiper*, see *Polygonum hydropiper*.
- Persicary, see *Polygonum* sp.
- Persimmon, common, see *Diospyros virginiana*.
- Peruvian bark, see *Cinchona officinalis*.
- Petit-grain, oil of, see *Citrus* sp.
- Petiveria alliacea** L.  
Used in Haiti, Nicaragua, and Central America as insecticide against bedbugs and plant lice. 933B.
- Petiveria tetrandra** Gomez.  
Used as fish poison. 795.
- Petroselinum crispum** (Mill.) Nym. (*P. hortense* Hoffm.; parsley).  
Oil MI<sup>1</sup> as repellent to oriental cockroach and *Lucilia cuprina* larvae; acetone ext. of leaves and stems NT mosquito larvae. 645, 849, 933B.
- Petunia hybrida** Vilin. (Common petunia).  
Exts. were not repellent to Japanese beetle. 933B.
- Petunia** sp. 933.
- Peucedanum ostruthium** L. (*Imperatoria ostruthium* L.; master wort).  
Exts. were not repellent to Japanese beetle. 933B.
- Peumus boldus** Mol. (Boldo).  
Exts. were not repellent to Japanese beetle. 933B.
- Phaseolus lathyroides** L.  
Seeds used as fish poison. 795.
- Phellodendron amurense** Rupr. (Amur cork or velvet tree).  
Fruit T mosquito larvae, housefly, and codling moth. 27, 643A, 759.
- Phellodendron lavalli**.  
Fruit has insecticidal properties. 933B.
- Phenacoccus gossypii**. (Orange oil).  
25% T Mexican meal bugs. 265.
- Philadelphus coronarius** L. (Sweet mockorange).  
Alch. ext. NT cotton caterpillars. 933.
- Phlox, garden, see *Phlox paniculata*.
- Phlox, moss, see *Phlox subulata*.
- Phlox paniculata** L. (Garden phlox).  
Exts. were not repellent to Japanese beetle. 933B.
- Phlox subulata** L. (Moss phlox).  
Exts. were not repellent to Japanese beetle. 933B.
- Phoradendron flavescens** (Pursh.) Nutt. (American mistletoe).  
Exts. were not repellent to Japanese beetle. 933B.
- Phyllanthus acuminatus** Vahl.  
Used as fish poison. 795.
- Phyllanthus brasiliensis** (Aubl.).  
Used as fish poison. 795.
- Phyllanthus cladotrichus** Muell.  
Used as fish poison. 795.
- Phyllanthus conami** Sw.  
Used as fish poison. 795.
- Phyllanthus ichthyomethius** Rusby.  
Leaves used as fish poison. 795.
- Phyllanthus niruri** L.  
Leaves (bruised) were applied for scabies in India. 933B.
- Phyllanthus piscatorum** H. B. K.  
Used as fish poison. 795.
- Phyllanthus simplex** Retz.  
In India fresh leaves bruised and mixed with buttermilk made wash to cure itch in children. 933B.
- Phyllanthus urinaria** L.  
Used as fish poison. 795.
- Phyllitis scolopendrium** (L.) Newman. (Hartstongue).  
Exts. were not repellent to Japanese beetle. 933B.
- Physalis angulata** L. (Cut-leaved ground cherry).  
Exts. of entire plant from British Guiana NT bean aphid. 933B.
- Phygadeuon peruvianum*, see *Nicanora physalodes*.
- Physoctigma venenosum** Balf. (Calabar bean).  
Eserine (physostigmine), alkaloid in calabar beans, very poisonous to higher animals; physiological action similar to that of nicotine; 0.2 and 0.1% emulsion 100% and 56.6% T bean aphids; semen physostigmatis NT caterpillars of *Prodenia litura*. 933B.
- Phytolacca acinosa** Roxb.  
Dust of roots T Mexican bean beetle, but fairly low mortality to other insects. 837.
- Phytolacca americana** L. (*P. decandra* L.; common pokeberry).  
Root, fresh or dried, NT cockroaches; MT cotton caterpillars; NT fly larvae. 933.
- Picea abies** (L.) Karst. (Norway spruce).  
Acetone and water exts. of leaves and small branches NT mosquito larvae. 643A.
- Picea orientalis** (L.) Link. (Oriental spruce).  
Exts. were not repellent to Japanese beetle. 933B.
- Pickereelweed, see *Pontederia cordata*.
- Pierammia pentandra** Swartz.  
Used in Haiti as general insecticide. 933B.
- Pierasma alanthoides**, see *Pierasma quassioides*.
- Pierasma excelsa** Planch. (*deschione excelsa* (Swartz) Kuntze; *Simaruba excelsa* DC; *Quassia excelsa* Swartz; *Pierasma excelsa* Lindl.; *Junonia quassia*; bitterwood).  
Wood used as insecticide; NT clothes moth. 42, 933, 1024, 1176, 1268, 1469.
- Pierasma napalensis** Benn.  
Powdered leaves and twigs used to kill mosquito larvae in Assam, India. 933B.
- Pierasma quassioides** (Ham.) Bennett. (*P. alanthoides* Planch.; *Nina quassioides* Ham.).  
Decoction of bark T lice. 933B.
- Pieris japonica** (Thunb.) D. Don. (Aseba; asemei).  
Used as insecticide in Japan. 933B.
- Pieris ovalifolia*, see *Lyonia ovalifolia*.
- Pignut, see *Carya glabra*.
- Pigweed, see *Amaranthus retroflexus*.
- Pigwack, see *Chondrus crispus*.
- Pilocarpus jaborandi** Holmes. (Jaborandi).  
Powdered leaves ST fly larvae. 933.
- Pimenta officinalis** Lindl. (*P. pimenta* Karst.; *P. vulgaris* Lindl.; allspice).  
Powdered allspice NT bedbugs, roaches, clothes moths, carpet beetles, and dog fleas; acetone ext. of dried unripe berries NT mosquito larvae; oil of leaves T *Lucilia cuprina* larvae. 42, 645, 849, 933, 1024, 1176, 1268.
- Pimenta racemosa** (Mill.) Moore. (*P. (Myrica) acris*; bayrum tree).  
Oil of leaves (50 p.p.m.) 100% T mosquito larvae and (25 p.p.m.) 55% T; 99-80% T *Lucilia cuprina* larvae and other insects. 643A, 849, 933B, 1048P, 1179.
- Pimpinella, see *Pimpinella saxifraga*.
- Pimpinella anisum** L. (Spanish anise).  
Acetone ext. of seeds T mosquito larvae; powder and seeds NT roaches; oil T *Lucilia cuprina* larvae and gnats. 645, 840, 933, 1048P, 1179.

- Pimpinella saxifraga** L. (Pimpinella).  
Exts. from dry rhizomes and roots more or less repellent Japanese beetle. 933B.
- Pine**, see *Pinus longifolia*.
- Pine**, pitch, see *Pinus rigida*.
- Pine**, Scotch, see *Pinus sylvestris*.
- Pine**, white, see *Pinus strobus*.
- Pine oil**, see *Pinus* sp.
- Pines**, see *Pinus* spp.
- Pine needles**, oil of, see *Pinus sylvestris*.
- Pineapple**, see *Ananas comosus*.
- Pinguicula vulgaris** L. (Butterwort).  
Juice of leaves T lice. 933B.
- Pink**, Maryland, see *Spigelia marilandica*.
- Pink**, swamp, see *Halenia bullata*.
- Pinus longifolia** Roxb. (Pine).  
In India crude oleoresin useful in preparation of plaster, ointments, and pastilles for fungitions; turpentine oil used as remedy for mange in horses; exts. applied as sprays against adult mosquitoes were much inferior to standard mosquitocides; turpentine T *Lyctus* beetles and emulsion NT wireworms. 26, 933B, 1396.
- Pinus rigida** Mill. (Pitch pine).  
Exts. were not repellent to Japanese beetle. 933B.
- Pinus strobus** L. (White pine).  
Water ext. of needles 10% T mosquito larvae. 643A.
- Pinus sylvestris** L. (Scotch pine).  
Acetone ext. of needles 25% T mosquito larvae; oil T as mothproofing agent. 297P, 643A, 878P, 1176, 1179.
- Pinus** sp. (Pine oil).  
T cockroach, Colorado potato beetle, Mexican bean beetle eggs, and as mothproofing agent; NT as contact spray to several species of insects. 71, 78, 265, 297P, 1176, 1179.
- Pinus** spp. (Pines).  
Exts. from needles were repellent to Japanese beetle; certain combinations of fractions of pine oils, when sprayed on bark of rustic furniture and log cabins made of white cedar, were very effective in killing larvae of wood borer; pine oil emulsion with nicotinic sulfate T *Aphrophora parallela*, but summer oil with nicotine sulfate gave only partial control. 933B.
- Pinxterbloom**, see *Azalea nudiflora*.
- Piper aduncum** L.  
Used in Haiti as insecticide, particularly T ants in seed beds. 933B.
- Piper album** Vahl. (White pepper).  
NT *Prodenia litura*. 933B.
- Piper cubeba** L. fil. (Cubeb).  
Acetone ext. of berries T mosquito larvae; 19-0% T *Lucilia cuprina* larvae. 643A, 845, 849.
- Piper elongatum** Vahl. (Matico).  
Exts. were not repellent to Japanese beetle. 933B.
- Piper nigrum** L. (Black pepper).  
Strong ext. T cotton caterpillars; acetone ext. of dried berries T mosquito larvae; alch. ext. black pepper, used as repellent, NT *Tineola biselliella* and *Attagenus piceus* (42, 739, 1024, 1268, 1479); T clothes moths (327P, 331P, 874P, 1077, 1176); oil 19-0% T *Lucilia cuprina* larvae. 42, 327P, 331P, 645, 739, 849, 874P, 933, 936P, 1024, 1077, 1175, 1176, 1268, 1479.
- Pipissewa**, common, see *Chimaphila umbellata*.
- Piranhaea trifoliata** Baill.  
Used as fish poison. 795.
- Piscidia carthagenensis** Jacq.  
Used as fish poison. 795.
- Piscidia piscipula** Sarg. (*P. erythrina* L.; *Ichthyomethia piscipula* (L.) Hitchc.; Jamaica fish poison).  
Powdered bark T fly larvae; roots and stems (inner bark) contain rotenone. 759, 933.
- Pistacia lentiscus** L. (Mastic tree).  
Mastic gum, with oils, unstable as emulsifier. 933B.
- Pistia stratiotes** L. (Waterlettuce).  
In India plant was reported to destroy bugs that infested a jute. 933B.
- Pithecollobium elliptica** Hassk.  
Exts. of leaves and bark of this fish poison plant from Malaya ST bean aphid. 933B.
- Pituri**, see *Duboisia hopwoodii*.
- Plaadura**, see *Blumea aurita*.
- Plane**, American, see *Platanus occidentalis*.
- Plane**, oriental, see *Platanus orientalis*.
- Plantago lanceolata** L. (Buckhorn plantain).  
Exts. were not repellent to Japanese beetle. 933B.
- Plantago major** L. (Common plantain).  
Exts. were not repellent to Japanese beetle. 933B.
- Plantago** sp.  
Acetone ext. of seeds T mosquito larvae. 645.
- Plantain**, buckhorn, see *Plantago lanceolata*.
- Plantain**, common, see *Plantago major*.
- Platanus occidentalis** L. (American plane tree).  
Acetone ext. leaves 5% T mosquito larvae. 643A.
- Platanus orientalis** L. (Oriental plane tree).  
Acetone ext. leaves 20% T mosquito larvae. 643A.
- Plectranthus rugosus** Wall.  
In India plant used as bedding to keep off fleas. 933B.
- Pleurisy**, true, see *Asclepias tuberosa*.
- Plum**, jambolan, see *Syzygium cumini*.
- Plumbago auriculata**, see *P. zeylanica*.
- Plumbago rosea** L. (*P. coccinea* (Lour.) Boiss.).  
Used for ulcers and scabies. 933B.
- Plumbago zeylanica** L. (*P. auriculata* Blume).  
5% Alch. ext. of roots 100% T caterpillars and 80% T beetle grubs; 5% ext. of stem bark 100% T caterpillars and beetle grubs. 933B.
- Plumeria rubra** L. (*P. aruminata* Roxb.; *P. acutifolia* (Poir.) Woodson; Mexican frangipani).  
In India juice mixed with sandalwood oil and camphor was employed as cure for itch; sap mixed with coconut used as remedy for itch. 933B.
- Podophyllum emodi** Wall. ex. Hook. and Thomas.  
Exts. applied as sprays against adult mosquitoes were much inferior to standard mosquitocides. 933B.
- Podophyllum peltatum** L. (Common mayapple).  
NT cotton caterpillars. 933.
- Pogogyne parviflora** Benth.  
Indians placed culled plants about their houses to drive away fleas. 933.
- Pogostemon heyneanus** Benth. (*P. patchouli* Pellet; patchouli).  
100% T (160 p.p.m.) mosquito larvae and 85% T (50 p.p.m.); oil 19-0% T *Lucilia cuprina* larvae, and listed as insecticide, particularly to exterminate moths. 61P, 643A, 849, 1176, 1366P.
- Pokeberry**, common, see *Phytolacca americana*.
- Polygala senega**. (Senega).  
Acetone ext. of root 10% T mosquito larvae. 643A.
- Polygonatum biflorum** (Walt.) Ell. (Henry Solomon-seal).  
Exts. were not repellent to Japanese beetle. 933B.
- Polygonatum commutatum** Dietz. (Great Solomon-seal).  
Exts. were not repellent to Japanese beetle. 933B.
- Polygonatum acer**, see *P. punctatum*.
- Polygonatum suberthii**. (Floerke vine).  
Foliage T Japanese beetle. 643A.
- Polygonatum flaccidum**.  
Plant contains saponin which was used in Assam as vernicide and fish poison; juice ST mosquito larvae. 933B.
- Polygonatum hispidum**, see *Polygonatum orientale*.
- Polygonatum hydropiper** L. (*Persicaria hydropiper* Opiz; water-pepper).  
T flies. 933.
- Polygonatum nodosum** Pers.  
Low mortality to several species of insects. 837.
- Polygonatum orientale** L. (*P. hispidum*).  
Used to cure skin diseases of dogs and as insecticide; whole plant used as fish poison. 795, 933B.
- Polygonatum pennsylvanicum** L. (Smartweed).  
NT horn fly. 933.
- Polygonatum punctatum** Ell. (*P. acer* H. B. K.).  
Used to cure skin diseases of dogs and as insecticide in Guatemala. 933B.
- Polygonum** sp. (Persicaria).  
Decoction repellent to grain weevils in France; found of insecticidal value against certain insects in South China. 933B.
- Polygonum officinale**, see *Fomes officinalis*.
- Polystichum acrostichoides**. (Christmas fern).  
Acetone ext. of rhizome NT mosquito larvae. 643A.
- Polytrichum juniperinum** Willd. (Haircap moss).  
Exts. were not repellent to Japanese beetle. 933B.
- Pomegranate**, see *Punica granatum*.
- Pond-apple**, see *Annona glabra*.

- Pongamia pinnata* (L.) W. F. Wight. (*P. glabra* Vent.; *Galedupa indica* Roxb.; hougay).  
In India fixed oil was prepared from seeds, which was used for itch; NT aphids; exts. of powdered root bark 15-20% T leafhopper, 5% alic. ext. of roots 10% T *Prodenia litura*, and 80% T *Plutella maculipennis*; 10% ext. 100% T *P. litura*; 3% ext. 100% and a 2% ext. 80% T *Euproctia fraterna*; sprays with hougay oil-resin soup T several species of mango boppers and scale insects and against lepidopterous larvae; NT nasturtium aphids, 933B.
- Pontederia cordata* L. (Pickerelweed).  
Ext. were not repellent to Japanese beetle. 933B.
- Poor-robin-plumtree, see *Eriogon pulchellus*.  
Poplar, black, see *Populus nigra*.  
Poppy, see *Papaver* spp.  
Poppy, Mexican or prickly, see *Argemone mexicana*.  
Poppy, opium, see *Papaver somniferum*.  
Poppy, pink plum, see *Macleaya cordata*.  
*Populus candicans*. (Balm-of-Gilead).  
Acetone ext. of leaves 95% T mosquito larvae. 643A.
- Populus nigra* L. (Black poplar).  
Ext. were not repellent to Japanese beetle. 933B.
- Portia tree, see *Thespesia populnea*.  
Potato, see *Solanum tuberosum*.  
*Potentilla argentea* L. (Silver cinquefoil).  
Ext. were not repellent to Japanese beetle. 933B.
- Prinos pabularia* Lindl.  
Roots remedy for itch; decoction of fruit employed as wash to cure "rot" in sheep. 933B.
- Prayer beads, see *Zanthoxylum americanum* and *Z. clavaherulis*.  
Prickly-ash, see *Zanthoxylum americanum* and *Z. clavaherulis*.  
Prickly pear, see *Opuntia humifusa*.  
Privet, European, see *Ligustrum vulgare*.  
*Prunus americana*.  
Leaves and flowers T insects. 643A.
- Prunus amygdalus* Batsch. (*Amygdalus communis* L.; *A. amara* Hayne; bitter almond).  
T head lice and a twig of tree kept in a room was said to dispel flies; amygdalin (10% in flour) NT *Prodenia litura*; oil 100% T *Lucilia cuprina* larvae, strongly repellent to oriental cockroach but of no value as repellent to screwworm. 849, 933B.
- Prunus persica*. (*Amygdalus persica* L.; peach).  
Leaves and flowers T insects; leaves wet with juice of mulberry-tree leaves T silkworm. 643A, 933.
- Prunus serotina*. (Virginia green wild cherry).  
Acetone ext. of bark 10% T mosquito larvae. 643A, 645.
- Prunus spinosa* L. (Blackthorn).  
Insects are not liable to attack this species. 933.
- Prunus* sp. (Cultivated cherry).  
Various exts. were of no value as attractants to cherry fruitfly in Germany. 933B.
- Prunus* spp.  
Acetone ext. of leaves T mosquito larvae. 645.
- Psoralea corylifolia* L. (Babchi).  
Ext. of seeds mixed with kerosene NT as mosquito larvicide. 933B.
- Psoralea pedunculata* (Mill.) Vail. (Sampson snake-root).  
Ext. were not repellent to Japanese beetle. 933B.
- Psychotria ipecacuanha*, see *Cephaelis ipecacuanha*.  
*Ptelea trifoliata*. (Water ash).  
Acetone ext. of root bark T mosquito larvae. 645.
- Pteridium aquilinum* (L.) Kuhn. (Bracken).  
Ext. were not repellent to Japanese beetle; clothes moths do not deposit their eggs in presence of these leaves, it is claimed. 933, 933B.
- Pteridium latissimum* (Desv.) Hieron. (Bracken).  
Acetone exts. of rhizome NT mosquito larvae. 643A, 933B.
- Pterocarya stenoptera* C. DC.  
Used in control of insects; used as dust, NT Mexican bean beetle. 837.
- Pterospermum acerifolium* (L.) Willd. (*P. aceroides* Wall.).  
In India flowers used as disinfectant and to keep away insects from bed clothes; exts. applied as sprays against adult mosquitoes were much inferior to standard mosquitocide. 933B.
- Pueraria thunbergiana*. (*P. hirsuta* Schneid; kuduru vine).  
Acetone and water ext. of leaves NT mosquito larvae. 643A.
- Pueraria yunnanensis* Fr.  
Used in control of insects. 837.
- Puffball, giant, see *Lycoperdon bovis*.  
*Pulegium vulgare*, see *Mentha pulegium*.  
*Pulicaria dysenterica* (L.) Gaertn. (*Inula dysenterica* L.; fleawort).  
Herb insecticide. 933.
- Pulicaria vulgaris* Gaertn. (*Inula pulicaria* L.).  
Flowers NT flies. 933.
- Pulmonaria officinalis* L. (Common lungwort).  
Ext. were not repellent to Japanese beetle. 933B.
- Pulverized wood, see *Andira rosea*.  
Pumpkin, see *Cucurbita pepo*.  
Pumpkin, striped cushaw, see *Cucurbita moschata*.
- Punica granatum* L. (Pomegranate).  
A 0.75- and 0.5% solution of pelletierine 90% T and 70% T bean aphids, respectively, and similar concentrations of pseudopelletierine 100% and 90% T. 933B.
- Pussytoes, see *Antennaria* spp.
- Pycnanthemum flexuosum* (Walt.) B. S. P. (*Koelia flexuosa*).  
Ext. were not repellent to Japanese beetle. 933B.
- Pyrrethrum*, see *Chrysanthemum* sp.
- Pyrus communis* L. (Kiefer pear).  
Ext. were not repellent to Japanese beetle. 933B.
- Pyrus* sp. (Common pear).  
Ext. were not repellent to Japanese beetle. 933B.
- Quassia amara* L. (Surinam quassia).  
This species has been largely replaced in use by Jamaica quassia, which occurs in much greater abundance. 933B.
- Quassia excelsa*, see *Picrasma excelsa*.  
Quassia, Jamaica, see *Picrasma excelsa*.  
Quassia, Surinam, see *Quassia amara*.
- Quassia* sp.  
T mosquito larvae and as mothproofing agent. 643A, 1175, 1216P.
- Quebracho, see *Schinopsis* sp.
- Quercus alba* L. (White oak).  
Water ext. of leaves 25% T mosquito larvae. 643A.
- Quercus coccinea* Muench. (Scarlet oak).  
Ext. of leaves 35% T mosquito larvae. 643A, 933B.
- Quercus rubra* L. (Common red oak).  
Ext. were not repellent to Japanese beetle. 933B.
- Quercus velutina* Lam. (Black oak).  
Acetone and water ext. of leaves 10% T mosquito larvae. 643A.
- Quercus* spp.  
Commercial exts. of gallnut and valonia were repellent to Japanese beetle; tannin NT clothes moths (789); woolen fabrics protected from moths by treatment with 3% tannin solution and then a bath of antimony salt. 739, 933B.
- Quillaja brasiliensis* Mart. 933B.
- Quillaja saponaria* Molina. (Quillat; quillays; soap-bark).  
Used as spreader 21% T prune aphid; bark T as mothproofing agent. 933, 1157P, 1164P, 1166P, 1175, 1178, 1179, 1258P, 1259P, 1260P, 1261P.
- Quince, see *Cydonia* sp.
- Radicula armoracia*, see *Armoracia lapathifolia*.  
Radish, horse, see *Armoracia lapathifolia*.  
Ragweed, see *Ambrosia artemisiifolia*.  
Ragweed, great, see *Ambrosia trifida*.
- Randia dumetorum* Lam.  
This fish poison plant is commonly found in coffee-growing areas of India; 5% alic. ext. of fruit skin 90% T *Epacromia tamulus* and *Euproctia fraterna*; NT *Crocidolomia binotalis*; ext. of root bark 100% T *E. fraterna*; 1/8% alic. ext. of root bark 50% T mosquito larvae; exts. of fruit more or less toxic to aphids; water exts. of powdered fruit (1 lb./10 gal. soapy water) 10% T leafhoppers, and 10% strength exts. of roots. 80% T *Coccus viridis*. 933B.
- Randia spinosa* (Jacq.) Karst.  
Fruit used as fish poison. 795.
- Ranunculus septentrionalis* Poir. (Buttercup).  
Ext. were not repellent to Japanese beetle. 933B.



- Rape, see *Brassica* spp.  
 Ratsbane, West African, see *Diclapetalum toxicarium*.  
 Rattlebox, see *Rhinanthus crista-galli*.  
*Rauvolfia obscura* K. Sch.  
 Decoction of leaves used in West Africa as remedy for parasitic skin diseases, yaws, and hair lice. 933B.  
*Rauvolfia vomitoria* Ait.  
 Decoction of leaves used in West Africa as remedy for parasitic skin diseases, yaws, and hair lice. 933B.  
*Reaumuria hypericoides* Willd.  
 Bruised leaves applied externally for treatment of itch in India. 933B.  
*Remusatia vivipara* (Lodd.) Scott. (*Arum viviparum* Roxb.).  
 Root made into ointment with turmeric, as remedy for itch. 933B.  
*Reseda odorata* L. (Mignonette).  
 Exts. were not repellent to Japanese beetle. 933B.  
*Rhamnus cathartica* L. (Common buckthorn).  
 Exts. were not repellent to Japanese beetle. 933B.  
*Rhamnus frangula* L. (Alder buckthorn).  
 Cortex of plant NT *Prodenia litura*. 933B.  
*Rhamnus purshiana* DC. (Cascara sagrada).  
 Acetone ext. of bark NT mosquito larvae. 645.  
*Rhamnus crenatus* Sieb. and Zucc.  
 Gave low mortality to several species of insects. 837.  
*Rheum officinale* Baill. (Rhubarb).  
 Water ext. of root 70% T mosquito larvae. 743A.  
*Rheum raphaniticum* L. (Garden rhubarb).  
 Water ext. of root 70% T mosquito larvae; *Radix rhei* NT *Prodenia litura*. 933B.  
*Rheum* sp. (Mixture of rhubarb sap).  
 Used as plant injection; effective on infestation of *Eriosoma lanigerum*. 175.  
*Rhinanthus nasutus* (L.) Kurz. (*R. communis* Nees.).  
 Used in India as remedy for dholi's itch. 933B.  
*Rhinanthus crista-galli* L. (Rattlebox). 833.  
 Rhodium, oil of.  
 70-60% T *Lucilia cuprina* larvae. 849.  
*Rhododendron hunnelliianum* Rehder and Wilson.  
 Nao-yang-wha).  
 Plant grows in China, and the compounds (andromedotoxine and an unidentified substance) present in it are effective as insecticides; recommended especially as stomach poison for insects. 933B.  
*Rhododendron japonicum* (Gray) Suring. (*R. molle* Sieb. and Zucc.).  
 Powdered flowers might be used to control *Rondotia menziana* in China. 933B.  
*Rhododendron molle* G. Don.  
 Roots and leaves gave low mortality to insects. 837.  
*Rhododendron* sp.  
 Best results obtained against *Rondotia menziana* were with a pyrethrum-soup soln., which was followed in effectiveness by rhododendron-soup soln. and croton oil emulsion. 933B.  
 Rhubarb, garden, see *Rheum raphaniticum*.  
 Rhubarb, medicinal, see *Rheum officinale*.  
*Rhus canadensis* March. (*R. aromatica* Ait.).  
 Exts. were not repellent to Japanese beetle. 933B.  
*Rhus coriaria* L. (Sumac).  
 When grown in proximity to infested vines, sumac destroys phylloxera; tannin in leaves kill or repel woolly aphids, it is believed; infusions of wood and leaves tested against phylloxera on grape vines in Italy gave negative results. 933.  
*Rhus glabra*. (Smooth sumac).  
 Acetone ext. of leaves NT mosquito larvae. 645.  
*Rhus toxicodendron*, see *Toxicodendron radicans*.  
*Rhus* sp. (Sumac).  
 Water ext. of berry 20% T and of leaves 5% T mosquito larvae. 643A.  
*Rhynchosia hispidula*, see *Neorautanenia hispidula*.  
*Ribes grossularia* L.  
 Extractum thebi (10% in water) NT *Prodenia litura*. 933B.  
 Rice, see *Oryza sativa*.  
*Ricinus communis* L. (*R. vulgaris* Mill.; *R. nediicus* Forsk.; castor-bean plant; castor-oil plant; Turkey red oil).  
 Powdered beans and husks, free of oil, T bees; powder ST silkworms, flies, and grasshoppers, but not webworms; acts as mosquito repellent; T when used in combination with pyrethrum against flies; castor oil, hydrogenated, T as mothproofing agent; sulfonated castor oil used to increase floatability on water of Paris green for killing *Anopheles* larvae and as mothproofing agent. 319F, 643A, 730P, 731F, 828P, 829F, 933, 933B, 972F, 977F, 980F, 1175, 1176, 1178.  
*Robinia pseudacacia* L. (Common locust).  
 Infusions of powdered bark mixed with manure ST fly larvae; exts. were not repellent to Japanese beetle. 933B.  
 Root, cucumber, see *Medeola virginiana*.  
 Root, culver's, see *Veronicastrum virginicum*.  
 Root, red, see *Lachnanthes tinctoria*.  
 Root, yellow, see *Xanthorrhiza apifolia*.  
*Rorippa armoracia*, see *Armoracia ethiopia*.  
 Rosemary, see *Rosmarinus officinalis*.  
 Rosewood, oil of.  
 70-60% T *Lucilia cuprina* larvae. 849.  
*Rosmarinus officinalis* L. (Rosemary; garden rosemary; oil of rosemary).  
 Ext. of oil (100 p.p.m.) 90% T and (50 p.p.m.) 20% T mosquito larvae; oil 100% T *Lucilia cuprina* larvae. 643A, 849, 933.  
 Rotenone.  
 T as mothproofing agent. 926P, 1175.  
 Roylea elegans Wall.  
 Leaves used as insecticide. 933.  
 Rubber tree, see *Hevea* spp.  
*Rudbeckia hirta* L. (Black-eyed susan).  
 Exts. from entire plant were repellent to Japanese beetle. 933B.  
 Rue, common, see *Ruta graveolens*.  
*Rumex acetosa* L. (Garden sorrel).  
 Exts. were not repellent to Japanese beetle. 933B.  
*Rumex* sp.  
 Aleh. ext. NT cotton caterpillars. 933.  
*Rungia repens* (L.) Nees. (*Justicia repens* L.).  
 In India whole plant considered vermifuge. 933B.  
*Ruprechtia laurifolia* C. A. May.  
 Whole plant used as fish poison. 795.  
 Rush, common, see *Juncus effusus*.  
*Ruta graveolens* L. (Common rue; oil of rutae).  
 Strong direction obtained by macerating leaves of plant in soap and water, stated to be successful remedy for American blight; oil 90-80% T *Lucilia cuprina* larvae. 849, 933.  
*Sabadilla officinarum*, see *Schoenocaulon officinale*.  
*Sabaria angulata* (L.) Pursh. (Rose gentian).  
 Exts. were not repellent to Japanese beetle. 933B.  
*Sabina officinalis*, see *Juniperus sabina*.  
 Sabral, see *Sesbania punctata*.  
 Safflower, see *Carthamus tinctorius*.  
 Saiton, meadow, see *Colchicum autumnale*.  
 Sage, see *Salvia* sp.  
 Sage, garden, see *Salvia officinalis*.  
 Sage, green, see *Salvia triloba*.  
 Sage, scarlet, see *Salvia splendens*.  
 Sage, Spanish, oil of, see *Salvia bicolor*.  
 Sagebrush, see *Artemisia tridentata*.  
 St. Johnswort, see *Hypericum perforatum*.  
 S. see *Dioscorea piscistrum*.  
*Salix nigra* Marsh. (Black willow).  
 Exts. of bark 5% T mosquito larvae. 643A, 933B.  
*Salmea scandens* (L.) DC.  
 Used as fish poison. 795.  
*Salvia bicolor*. (Oil of Spanish sage).  
 90-80% T *Lucilia cuprina* larvae. 849.  
*Salvia monocephala* Wall.  
 Leaves used as remedy for itch. 933B.  
*Salvia officinalis* L. (Sage).  
 Ext. of root 95% T and leaves 80% T mosquito larvae; acetone ext. of leaves and stems T mosquito larvae. 643A, 645.  
*Salvia plebeia* R. Br.  
 Seeds T vermin. 933B.  
*Salvia solarea* L.  
 Oil applied in 2% emulsion sprays, 51-80% T red spider and cotton aphid. 933B.  
*Salvia splendens* Ker. (Scarlet sage).  
 Exts. were not repellent to Japanese beetle. 933B.  
*Salvia triloba* L. (Green sage).  
 Exts. were not repellent to Japanese beetle. 933B.

- Salvia* sp. (Sage).  
Odor of sage had no effect on mosquitoes, but smoke from burning leaves stunned them in 8 to 10 min. and killed them in 36 hrs. 933B.
- Samadera indica* Gaertn. (*S. pentapetala* G. Don.; *Niota pentapetala* Poir.; *N. commersoni* Pers.). 933.  
Samanobere, see *Clauseria anisata*.
- Sambucus canadensis* L. (American elder).  
Acetone ext. of flowers T mosquito larvae; decoction of leaves, flowers, or berries recommended as wash for wounds to prevent injury from flies; NT silkworms, webworms, and rose aphids. 645, 933.
- Sambucus nigra* L. (European elder).  
Acetone ext. of flowers T mosquito larvae; leaves are noxious to insects, moles, etc. 645, 933.
- Sandalwood, see *Santalum album*.
- Sandrac tree, see *Callitris quadrivalvis*.
- Sandbox tree, see *Hura crepitans*.
- Sanguinaria canadensis* L. (Blood root).  
Acetone ext. of root 35% T mosquito larvae 643A.
- Sanguisorba officinalis* L.  
Gave low mortality to several species of insects. 837.
- Santiveria roxburghiana* Schult.  
In India this plant was prescribed for itch. 933B.
- Santalum album* L. (Santal; sandalwood).  
Oil ext. 100% T (50 p.p.m.) and 65% T (25 p.p.m.) mosquito larvae; oil T *Lucilia cuprina* larvae; acetone ext. of wood T mosquito larvae. 645.
- Santolina chamæcyparissus* L. (Lavender-cotton). 933.
- Santolina* sp.  
Small quantities of plants put in containers holding herbarium collections were reported to kill the insect pests. 933B.
- Santonin.  
10% T (100.0 p.p.m.) mosquito larvae. 643A.
- Sapius marginatus* Willd.  
Repellent to grain weevils and other insects. 933B.
- Sapius mukorossi* Gaertn.  
T green peach aphid. 933B.
- Sapius saponaria* L.  
Fruit used as fish poison. 795.
- Sapius utilis* Trab.  
Lapin effective in combating various pests in fruit regions of Azerbaijan; an emulsion made of 5 lbs. saponin (ext. of fruit), 5 gals. paraffin, and 25 gals. water recommended against olive scale in Algeria. 933B.
- Sapium ellipticum* (Hochst.) Pax. (Msharaka).  
Branches used on maggot-infested wounds. 933B.
- Sapium indicum* Willd.  
Seeds used in India as fish poison and as insecticide. 933B.
- Saponaria officinalis* L. (Soapwort).  
Decoction used as external application for itch in France and Germany; exts. were not repellent to Japanese beetle. 933B.
- Saponaria vaccaria* L. (*Gypsophila vaccaria* Sibth. and Sm.; cow soapwort).  
Mucilaginous sap used as soap by natives of Sind, India, for washing clothes, and it was said to be cure for itch. 933B.
- Sarcostemma brevistigma* Wight and Arn. (*Asclepias acida* Roxb.).  
In India water passed through a bundle of these plants and a bag of salt is used to extirpate white ants from a field. 933B.
- Sarsaparilla, American, see *Aralia nudicaules*.
- Sassafras albidum* (Nutt.) Nees. (*S. officinale* Nees. and Eberm.; *S. sassafras* Karst.; *S. varifolium* (Salisb.) Kuntze; *Lawson sassafras* L.; *sassafras*).  
Powdered bark T chicken lice and dog flea, but not recommended against these insects; oil plus petrolatum one of best repellents against screwworm and is attractive to cockroaches; oil 79-60% T *Lucilia cuprina* larvae; acetone ext. of leaves 5% T mosquito larvae; alc. ext. of dried root bark NT cotton caterpillars. 643A, 849, 933B.
- Satureia hortensis* L. (Summer savory).  
Oil repellent to cotton aphids; smoke from burning dried leaves stunned and killed mosquitoes; exts. were not repellent to Japanese beetle. 933B.
- Sauromatum guttatum* Schott. (*Arum venosum* Ait.).  
Plant was observed during blooming period to attract in 2 days more than 100 flies, which were found dead in bottom of flowers. 933B.
- Saururus cernuus* L. (Common lizardtail).  
Exts. were not repellent to Japanese beetle. 933B.
- Saussurea lappa* (Decaisne) C. B. Clark. (*Aucklandia costus* Falconer; *costus* root).  
Insecticide for moths. 933.
- Savin, see *Juniperus sabina*.
- Savory, summer, see *Satureia hortensis*.
- Scabiosa atropurpurea* L. (Sweet scabiosa).  
Exts. were not repellent to Japanese beetle. 933B.
- Schinopsis* sp. (Quebracho).  
Commercial ext. effective repellent to Japanese beetle. 933B.
- Schkuhria abrotanoides* Roth.  
Flowers used in Peru for same purpose as genuine insect powder. 933B.
- Schleichera trijuga* Willd.  
In India natives rub up bark with oil and use as remedy for itch; seeds used as insecticide. 933B.
- Schoenocaulon officinale* (Schlecht. and Cham.) A. Gray. (*Veratrum officinale* Schlecht. and Cham.; *Helonias officinalis* Don; *Asagraea officinalis* Lindl.; *Sabadilla officinarum* Brandt and Ratzeb.; *sabadilla*).  
Used as dust, T grasshoppers, roaches, etc.; used as insecticide against lice; T mosquitoes. 933.
- Scilla maritima*, see *Urginea maritima*.
- Scorzonera latifolia* (Fisch. and May.) DC.  
Colophony, resin obtained from this species, may be of value in manufacture of adhesives for use in caterpillar glue. 933B.
- Serophularia marilandica* L. (Figwort).  
Exts. were not repellent to Japanese beetle. 933B.
- Serophularia nodosa*.  
Acetone ext. of whole plant 25% T mosquito larvae. 643A.
- Scutellaria lateriflora*. (Skullcap).  
Acetone ext. of whole plant 25% T mosquito larvae. 643A.
- Sua onion, see *Urginea maritima*.
- Sebastians pavoniana* Muell. Arg.  
Milky juice T various insects. 933B.
- Selaginella scandens* Spring.  
Leaves were put on fires to keep ticks away from houses in Gold Coast, Africa. 933B.
- Senecio aureus* L. (Groundsel).  
Exts. were not repellent to Japanese beetle. 933B.
- Senecio vulgaris* L.  
Exts. were not repellent to Japanese beetle. 933B.
- Senna, Alexandria, see *Cassia acutifolia*.
- Senna coffee, see *Cassia occidentalis*.
- Senna, Congo, see *Cassia angustifolia*.
- Senna purpurea, see *Cassia sophora*.
- Senna sophora, see *Cassia sophora*.
- Senna, wild, see *Cassia herbacea*.
- Serenoa repens* (Bart.) Small. (Saw palmetto).  
Exts. were not repellent to Japanese beetle. 933B.
- Sericocarpus asteroides* (L.) Bsp. (Whitetop-aster).  
NT aphids. 933.
- Serjania acuminata* Radlk.  
Stems and leaves used as fish poison. 795.
- Serjania caracasana* (Jacq.) Willd.  
Stems and leaves used as fish poison. 795.
- Serjania clematidifolia* Camb.  
Leaves and stems used as fish poison. 795.
- Serjania cuspidata* Camb.  
Leaves and stems used as fish poison. 795.
- Serjania erecta* Radlk.  
Stems and leaves used as fish poison. 795.
- Serjania fuscifolia* Radlk.  
Stems and leaves used as fish poison. 795.
- Serjania glabrata* H. B. K.  
Leaves and stems used as fish poison. 795.
- Serjania glutinosa* Radlk.  
Stems and leaves used as fish poison. 795.
- Serjania grandiflora* Camb.  
Leaves and stems used as fish poison. 795.
- Serjania ichthyoctona* Radlk.  
Stems and leaves used as fish poison. 795.
- Serjania laroutteana* Camb.  
Stems and leaves used as fish poison. 795.
- Serjania lethalis* St. Hil.  
Stems and leaves used as fish poison. 795.

- Serjania ovalifolia* Radlk.  
Stems and leaves used as fish poison. 795.
- Serjania paucidentata* DC.  
Stems and leaves used as fish poison. 795.
- Serjania piscicaria* Radlk.  
Stems and leaves used as fish poison. 795.
- Serjania polyphylla* (L.) Radlk.  
Stems and leaves used as fish poison. 795.
- Serjania rubicaulis* Benth.  
Stems and leaves used as fish poison. 795.
- Serjania rufa* Radlk.  
Leaves and stems used as fish poison. 795.
- Serjania sericea* Radlk.  
Stems and leaves used as fish poison. 795.
- Serjania tristis* Radlk.  
Stems and leaves used as fish poison. 795.
- Serjania* sp. (Hibithiohabu).  
Exts. of stems of this fish poison plant from British Guiana NT bean aphid. 933B.
- Sesamum indicum* L. (S. orientale L.; sesame; benne or tel oil).  
Acetone ext. of seed T mosquito larvae and houseflies; acetone ext. of fl. ver tops and leaves T mosquito larvae. 645, 1276.
- Sesbania aculeata* Poir.  
In West Africa natives claimed that animals washed in water in which leaves of this shrub had been pounded could safely traverse a tsetse fly belt. 933B.
- Sesbania aegyptiaca* Pers. (*Aeschynomene sesbania* L.).  
Seeds mixed with flour applied externally as remedy for itch in the Punjab. 933B.
- Sesbania punctata* DC. (Sabral).  
Natives in Africa used decoction of leaves for washing animals to prevent bites of tsetse fly. 933B.
- Shepherd's-purse, see *Capsella bursa-pastoris*.
- Sideroxylon borbolicum* A. DC. 933.
- Silene antirrhina* L. (Sheep catchfly).  
Exts. were not repellent to Japanese beetle. 933B.
- Silphium laciniatum* L. (Compass plant).  
Exts. were not repellent to Japanese beetle. 933B.
- Silverbell tree, see *Halesia carolina*.
- Simaruba excelsa*, see *Picrasma excelsa*.
- Simaruba vesicolar* St. Hil.  
Bark reduced to powder used as insecticide. 933B.
- Sisyrinchium alba*, see *Brassica hirta*.
- Sisyrinchium* sp. (Blue-eyed-grass).  
Exts. were not repellent to Japanese beetle. 933B.
- Sium suave* Walt. (Water parsnip).  
Exts. were not repellent to Japanese beetle. 933B.
- Skullcap, see *Scutellaria lateriflora*.
- Smartweed, see *Polygonum pennsylvanicum*.
- Smilacina trifolia* (L.) Desf. (*Vagnera trifolia* (L.) Morong; false Solomonseal). 933B.
- Smilax bonanox* L. (S. *tamandae*; bamboo brier).  
Acetone ext. of root 20% T mosquito larvae. 643A.
- Smilax rotundifolia* L. (Common greenbrier).  
Exts. were not repellent to Japanese beetle. 933B.
- Smilax tamandae*, see S. *bonanox* L.
- Snakeroot, Canada, see *Asarum canadense*.
- Snakeroot, saunpon, see *Psoralea pedunculata*.
- Snakeroot, seneca, see *Polygala senega*.
- Snakeroot, Texas, see *Aristolochia reticulata*.
- Snakeroot, Virginia, see *Aristolochia serpentaria*.
- Snopdragon, see *Antirrhinum* sp.
- Snopweed, spotted, see *Impatiens biflora*.
- Sneezeweed, see *Helenium autumnale*.
- Snow-on-the-mountain, see *Euphorbia marginata*.
- Soapbark, see *Quillaja saponaria*.
- Soapwort, see *Saponaria officinalis*.
- Soapwort, cow, see *Saponaria vaccaria*.
- Soja mair*, see *Glycine soja*.
- Solanum auriculatum* Ait. 933.
- Solanum carolinense* L. (Horse nettle).  
Water ext. NT small webworms and small caterpillars; powder, used as fumigant, NT small caterpillars caterpillars; used as stomach poison, NT silkworms and webworms, but ST grasshoppers; used as dust, ST tent caterpillars and roaches; acetone ext. of berry 40% T mosquito larvae. 643A, 933.
- Solanum dulcamara* L. (Bitter nightshade).  
Infusions of entire plant mixed with manure 26% T fly larvae in one test and 82% T in a second test; exts. were not repellent to Japanese beetle. 933B.
- Solanum indicum* L.  
In India leaves and fruit, rubbed up with sugar, used as external application for itch. 933B.
- Solanum jamesii* Torr.  
Leaves T potato beetle larvae. 933B.
- Solanum nigrum* L. (Black nightshade).  
Decoction of fresh plant remedy for woolly aphid; decoction as spray against aphids only partly effective; infusion or ext. of unripe fruits T insects, the toxic principle being solanine, an alkaloid present in a number of solanaceous plants. 933B.
- Solanum tuberosum* L. (Potato).  
Concentrated potato water T lice on animals; potato starch NT roaches. 933.
- Solidago jucea* Ait. (Early goldenrod).  
Exts. were not repellent to Japanese beetle. 933B.
- Solidago odora* (Goldenrod).  
Acetone and water exts. of leaves and tops 5% T mosquito larvae. 643A.
- Solidago* sp. (Goldenrod).  
Exts. from fresh leaves slightly repellent to Japanese beetle. 933B.
- Solomonseal, false, see *Smilacina trifolia*.
- Solomonseal, great, see *Polygonatum commutatum*.
- Solomonseal, hairy, see *Polygonatum biflorum*.
- Senchus oleraceus* L. (Nasturtium).  
Exts. were not repellent to Japanese beetle. 933B.
- Sophora flavescens* Ait.  
Decoction of stems and leaves used in Japan as insecticide. 837, 933.
- Sophora griffithii* Stocks. (*Keyserlingia griffithii* Boiss.).  
Powdered seeds mixed with oil T lice in hmr. 933.
- Sophora japonica* L. (Japanese pagoda-tree).  
Acetone ext. root 20% T and of stem NT mosquito larvae. 643A.
- Sophora mollis* B. Graph.  
Used as insecticide in India. 933B.
- Sophora pachycarpa* Schrenk.  
This species grows wild in central Asia and is rich source of an active alkaloid, pachiarapine, which might be used as contact insecticide; sopherol has been effective in controlling aphids; alkaloids are intermediate between anabinese and lupine in insecticidal power; d-sparteine, contained in vegetative parts is most toxic alkaloid. 933B.
- Sophora tinctoria*, see *Baptisia tinctoria*.
- Sophora tomentosa* L.  
Exts. of seeds NT bean aphid; crude exts. of cytisine containing seeds such as these, with the possible exception of laburnum, are not likely to prove of practical importance; cytisine, as stomach poison, NT *Scelion tetralunaria* larvae. 933B.
- Sopilete.  
Chips of wood (Honduras) reported to contain rotenone. 759.
- Sorbus americana*. (American mountain ash).  
Acetone ext. of berries 20% T and of bark 10% T mosquito larvae. 643A.
- Sorrel, garden, see *Rumex acetosa*.
- Sourwood, see *Oxydendrum arboreum*.
- Southern mountain, see *Adiantum capillus-veneris*.
- Southernwood, see *Artemisia abrotanum*.
- Southsile, see *Senchus oleraceus*.
- Soybean, see *Glycine soja*.
- Sparganium americanum* Nutt. (Bur reed).  
Exts. were not repellent to Japanese beetle. 933B.
- Spatholobus roxburghii* Benth.  
Roots reported to contain rotenone. 759.
- Spennmint, see *Mentha pycnantha*.
- Specularia perfoliata* (L.) A. DC. (Venus looking-glass).  
Exts. were not repellent to Japanese beetle. 933B.
- Spectwell, see *Veronica officinalis*.
- Spicebush, see *Lindera benzoin*.
- Spizelia marilandica*. (Maryland pink).  
Water ext. of root 30% T mosquito larvae. 643A.
- Spikenard, American, see *Aralia racemosa*.
- Spizantes umella* (L.) Nutt.  
Fruit used in India as fish poison and as insecticide. 933B.
- Spindle tree, see *Euonymus europaeus*.
- Springbeauty, Virginia, see *Claytonia virginica*.

- Spruce, Norway, see *Picea abies*.  
 Spruce, oriental, see *Picea orientalis*.  
 Spurge, see *Euphorbia ipecacuanha*.  
 Squash, blue hubbard.  
   Acetone ext. of seeds *T. mosquito* larvae. 645.  
 Squash, Connecticut straight-neck.  
   Acetone ext. of seeds *T. mosquito* larvae. 645.  
 Squash, golden summer crook-neck.  
   Acetone ext. of seeds *T. mosquito* larvae. 645.  
 Squash, winter.  
   Acetone ext. of seeds *T. mosquito* larvae. 645.  
 Squill, see *Urginea maritima*.  
 Squirrelcorn, see *Dicentra canadensis*.  
 Stachys officinalis (L.) Franch. (Common betony).  
   Exts. from entire plant were more or less repellent to Japanese beetle. 933B.  
 Star-of-Bethlehem, see *Ornithogalum umbellatum*.  
 Stellaria media (L.) Cyr. (*Alsine media* L.; common chickweed).  
   Exts. were not repellent to Japanese beetle. 933B.  
 Stemonia collinsae Craib.  
   Exts. of tubers of this plant from Siam NT bean aphid. 933B.  
 Stemonia tuberosa Lour. (Paipu).  
   Decoctions of dried roots 90% *T. crickets*, 40% *T. weevils*, and 100% *T. lepidopterous* larvae; alch. ext. *T. body louse*, public louse, fleas, and effective in killing eggs of lice. 933B.  
 Stillingia sylvatica L. (Stillingia).  
   Exts. were not repellent to Japanese beetle. 933B.  
 Stipa viridula Trin. (Sleepy grass).  
   Powder, used as dust, ST roaches, but NT tent caterpillars. 933.  
 Stunant, see *Cunila origanoides*.  
 Storax tree, see *Styrax officinalis*.  
 Strophanthus, see *S. kombe*.  
 Strophanthus divaricatus (Lour.) Hook. and Arn.  
   Gave low mortality to several species of insects. 937.  
 Strophanthus kombe Oliver. (Strophanthus).  
   Exts. were not repellent to Japanese beetle. 933B.  
 Strychnos ignatii.  
   Seeds used in mothproofing. 1161P, 1175.  
 Strychnos nuxvomica.  
   Seeds used in mothproofing. 1164P, 1175.  
 Strychnos toxifera Schomb. ex. Benth.  
   Minimum toxic concentration required to kill about 95% of bean aphids sprayed was greater than 0.5 gm./100 cc. while that of nicotine sulfate was 0.009 gm./100 cc.; weak concentration of curare increased larval activity of *Coccythra crystallina* larvae. 933B.  
 Stylosanthes biflora (L.) B. S. P. (Pencil flower).  
   Exts. from plant were not repellent to Japanese beetle. 933B.  
 Styrax benzoin Dryand. (Benzoin gum; kemenyan).  
   5% Water ext. of roots of this Malayan fish poison tree killed three-fifths of moth larvae of *Parasa verbifera*, while a 0.5% ext. of derris roots killed all larvae treated in less time; acetone ext. of gum NT mosquito larvae. 645, 933B.  
 Styrax officinalis L. (Storax tree).  
   Solution of styrax containing sulfur or tar recommended as remedy for mites on man and animals. 933B.  
 Styrax spp.  
   Benzoin derived from one or more species of *Styrax* was one of mothproofing materials claimed in a German patent. 933B.  
 Sugar-apple, see *Annona squamosa*.  
 Sumac, see *Rhus* sp.  
 Sumac, Stiehlina, see *Rhus coriaria*.  
 Sumac, smooth, see *Rhus glabra*.  
 Suma rubra.  
   Water ext. of bark ST silkworms. 933.  
 Sundew, roundleaf, see *Drosera rotundifolia*.  
 Sunflower, common, see *Helianthus annuus*.  
 Sunflower, sweet, see *Helipopsis helianthoides*.  
 Sunrose, see *Helianthemum canadense*.  
 "Suppli," see *Mundulea sericea*.  
 Susan, black-eyed, see *Rudbeckia hirta*.  
 Swallowwort, see *Chelidonium majus*.  
 Swampcandle, see *Lysimachia terrestris*.  
 Swamp pink, see *Helonias bullate*.  
 Sweetbay, see *Magnolia virginiana*.  
 Sweetfern, see *Myrica peregriana*.  
 Sweetleaf, see *Symplocos paniculata*.  
 Sweet oil, see *Olea europaea*.  
 Sweet woodruff, see *Asperula odorata*.  
 Swertia chirata Buch.-Ham.  
   Exts. applied as sprays against adult mosquitoes were much inferior to standard mosquitocide. 933B.  
 Swertia chirayita (Roxb.) Lyons. (Chiraitia).  
   Exts. were repellent to Japanese beetle. 933B.  
 Symphytum officinale. (Comfrey).  
   Water ext. of root 45% *T. mosquito* larvae. 643A.  
 Symplocarpus foetidus [L.] Nutt. (Skunk cabbage).  
   Acetone ext. of root 65% *T. mosquito* larvae. 643A.  
 Symplocos paniculata. (Sweetleaf).  
   Acetone ext. of root 10% *T. mosquito* larvae. 643A.  
 Synandropadix vermitoxicus Endl.  
   Poisonous bulbs serve for destruction of injurious insects. 933.  
 Syringa vulgaris L. (Common lilac).  
   Oil 39-20% *T. Lucilia cuprina* larvae; exts. were not repellent to Japanese beetle. 849, 933B.  
 Syzygium aromaticum. (*Eugenia caryophyllata* Thunb.; *E. aromaticata* Baill.; *Caryophyllus aromaticus* L.; clove tree).  
   *T. chicken lice*, dog fleas, body lice, and clothes moths; oil of clove buds and powder strong repellents against screwworm and attractive to codling moth; powdered cloves *T. carpet beetle* larvae but NT cockroaches; acetone ext. of flower buds *T. mosquito* larvae and ants. 643A, 645, 933, 933B, 1024, 1025, 1048P, 1176, 1179.  
 Syzygium cumini. (*Eugenia cumini* (L.) Druce; Jambolan plum).  
   Exts. were not repellent to Japanese beetle. 933B.  
 Tagetes erecta L. (African marigold).  
   Ext. of seeds mixed with kerosene gave poor results as larvicide. 933B.  
 Tagetes minuta L. (*T. glandulifera* Schrank.). 933.  
 Tagetes patula L. (French (harmony) marigold).  
   Acetone ext. of flowers NT mosquito larvae. 645.  
 Tagetes patula L. (Dwarf double French yellow pigmy marigold).  
   Acetone ext. of flowers NT mosquito larvae. 645.  
 Tagetes spp.  
   Oil from Mexican marigold (probably *T. erecta*) had an appreciable effect on stalk borer in maize, but for too weak to be used commercially against this insect; exts. were not repellent to Japanese beetle; oil 99-80% *T. Lucilia cuprina* larvae. 849, 933B.  
 Talaballi.  
   Alch. ext. and water suspensions NT caterpillars. 933B.  
 Talisia esculenta (St. Hil.) Radlk.  
   Stems and leaves used as fish poison. 795.  
 Tallowwood, see *Ximenia americana*.  
 Tamus communis L. (Black-briery).  
   Powdered root *T. hair lice*. 933.  
 Tanacetum vulgare L. (Tansy).  
   Flowers have stupefying effect on insects; plants ST peach-tree borer; alch. ext. NT cotton caterpillars; acetone ext. of whole plant 10-30% *T. mosquito* larvae; oil 99-80% *T. Lucilia cuprina* larvae. 643A, 849, 933.  
 Tangerine orange, oil of, see *Citrus reticulata*.  
 Tansy, see *Tanacetum vulgare*.  
 Tapura amazonica Poepp. and Endl.  
   Branches used as fish poison. 795.  
 Tapura guianensis Aubl.  
   Branches used as fish poison. 795.  
 Taraxacum palustre var. officinale (Lam.) Fernald. (Dandelion).  
   Acetone ext. leaves *T. mosquito* larvae, but of root NT; exts. were not repellent to Japanese beetle. 645, 933B.  
 Tarragon, see *Artemisia sacrorum*.  
 Taxus cuspidata Sieb. and Zucc. (Japanese yew).  
   Exts. were not repellent to Japanese beetle. 933B.  
 Tea, see *Camellia sinensis*.  
 Tea, crystal-, see *Ledum palustre*.  
 Tea, Jersey-, see *Ceanothus americanus*.  
 Tea, Paraguay, see *Ilex paraguayensis*.  
 Tea, true Labrador-, see *Ledum groenlandicum*.  
 Teak, see *Tectona grandis*.

- Tectona grandis** L. f. (Teak).  
Tar extracted from wood was applied to sores of draft cattle to destroy maggots; teak-wood tar remedy for white ants. 933B.  
Teel oil, see *Sesamum indicum*.  
**Tellaria pedata**. (Kweme nuts).  
Seeds used as insecticide. 1503.  
**Tephrosia ambigua** M. A. Curtis. (*Cracca ambigua*).  
Insecticidal content found in roots. 759, 761.  
**Tephrosia brevipes** Benth.  
Leguminous plant reported to contain rotenone. 759.  
**Tephrosia candida** (Roxb.) A. DC.  
Roots and pods reported to contain rotenone. 759, 795.  
**Tephrosia chrysophylla** Pursh.  
Roots reported to contain rotenone. 759.  
**Tephrosia cinerea** (L.) Pers.  
Aerial portions reported to contain rotenone. 759.  
**Tephrosia decumbens** Benth.  
Leguminous plant reported to contain rotenone. 759.  
**Tephrosia densiflora** Hook. f.  
Roots, stems, seeds, and petals reported to contain rotenone. 759.  
**Tephrosia diffusa** (E. Mey.) Harv.  
Zulus used decoction of roots to destroy head lice. 933B.  
**Tephrosia ehrenbergiana** Schweinf.  
Roots, stems, seeds, sepals, petals, ovules, and stamens reported to contain rotenone. 759.  
**Tephrosia emarginata** H. B. K.  
Used as fish poison. 795.  
**Tephrosia gracillima** (Robinson) Killip.  
Roots reported to contain rotenone. 759.  
**Tephrosia grandiflora** (Vahl.) Pers.  
Thongs used decoction of root of species of *Tephrosia* (probably *T. grandiflora*) as parasiticide. 933B.  
**Tephrosia heckmannia** Harms.  
Infusions of fresh leaves were reported to be toxic to bedbugs and larvae of maize stalk borer, but exts. of dry material NT been aphid. 933B.  
**Tephrosia heydena** (Rydb.) Standl.  
Leguminous plant reported to contain rotenone. 759.  
**Tephrosia hispidula** (Meliex.) Pers. (*Cracca h.*).  
Roots reported to contain rotenone. 759, 761.  
**Tephrosia hookeriana** Wight and Arn.  
Ext. of roots, stems, leaves, seeds, and fruits ST bean aphid. 933B.  
**Tephrosia latidens** (Small) Standl. (*Cracca L.*).  
Roots reported to contain rotenone. 759, 761.  
**Tephrosia lindheimeri** A. Gray. (*Cracca L.*).  
Insecticidal content found in roots; roots, seeds, and pods reported to contain rotenone. 759, 761.  
**Tephrosia macropoda** (K. Mey.) Harv.  
Roots reported to contain rotenone. 759.  
**Tephrosia nicaraguensis** Oerst.  
Leguminous plant reported to contain rotenone. 759.  
**Tephrosia nitens** Benth.  
Used as fish poison. 759, 795.  
**Tephrosia noctiflora** Bof.  
Seeds reported to contain rotenone. 759.  
**Tephrosia nyikensis** Bak.  
Ext. of leaves, seeds, and pods much less toxic to citrus aphid than were those of *T. vogelii*. 933B.  
**Tephrosia onobrychoides** Nutt.  
Roots reported to contain rotenone. 759.  
**Tephrosia piscatoria** (Ait.) Pers. (*Cracca p.* Lyons; *C. villosa purpurea* (L.) Kuntze; *Galepa purpurea* L.; *G. piscatoria* Ait.; *Tephrosia purpurea* Pers.; Pacific fish-poison).  
Used medicinally in India and to stupefy fish; NT tent caterpillar; combined roots and aerial portions reported to contain rotenone. 759, 933, 1116.  
**Tephrosia sessiliflora** (Poir.) Hassl.  
Used as fish poison. 795.  
**Tephrosia smallii** (Vail) Robinson.  
Roots reported to contain rotenone. 759.  
**Tephrosia spicata** (Walt.) Torr. and Gray.  
Insecticidal content found in roots. 759, 761.  
**Tephrosia talpa** Watson.  
Leguminous plant reported to contain rotenone. 759.  
**Tephrosia toxicaria** (Sw.) Pers.  
Used as fish poison. 759, 795.  
**Tephrosia villosa** (L.) Pers.  
Alch. ext. of roots and stems MT bean aphid. 933B.  
**Tephrosia virginiana** (L.) Pers. (*Cracca v.*).  
Insecticidal content found in roots. 759, 761.  
**Tephrosia vistita** Vog.  
In Holland dusts from plant NT *Myrmica rubra* and larvae of *Phaenocarpa bucephala*, but detritus was fatal to them. 933B.  
**Tephrosia vogelii** Hook. f.  
Leaves reported to contain rotenone. 759.  
**Terminalia catappa** L. (*T. moluccana* Lam.; Indian almond).  
Juice of young leaves was employed in Southern India in an ointment for scabies; commercial ext. effective repellent to Japanese beetle. 933B.  
**Teucrium canadense** L. (American germander).  
Ext. from entire plant were not repellent to Japanese beetle. 933B.  
**Tez-moora**, see *Zanthoxylum hamiltonianum*.  
**Thalictrum polygamum** Muhl. (Mecklenburg).  
Ext. were not repellent to Japanese beetle. 933B.  
**Thea sinensis**, see *Camellia sinensis*.  
**Theobroma cacao** L. (Cacao; cocoa).  
A chocolate manufacturer mentioned an odd experience in connection with disposal of cocoa shells. Some shells were used as bedding for dogs, later the keeper credited the shells with having caused the disappearance of fleas infesting the dogs. 933B.  
**Thespesia populnea** (L.) Soland. (Portia tree; tulip-tree of India).  
Flowers and yellow juice of fruit employed as external application for itch in India. 933B.  
**Thevetia albanii** (L.) A. DC.  
Leaves and fruit used as fish poison. 795.  
**Thevetia peruviana** (Pers.) Merrill.  
Leaves and fruit used as fish poison. 795.  
Thistle, sow, see *Sonchus oleraceus*.  
Thoroughwort, see *Eupatorium hyssopifolium*.  
**Thuja occidentalis**. (Arbor vitae).  
Water ext. of leaves 25% T mosquito larvae. 643A.  
Thunder god vine, Chinese, see *Tripterygium wilfordii*.  
Thyme, see *Thymus vulgaris*.  
Thyme, mother-of-, see *Thymus serpyllum*.  
Thyme, oil of red, see *Thymus* sp.  
**Thymus serpyllum** L. (Mother-of-thyme).  
In France decoction used to cure itch and some other skin disorders. 933B.  
**Thymus vulgaris**. (Thyme).  
Acetone ext. of leaves NT mosquito larvae. 645.  
**Thymus** sp. (Oil of red thyme).  
HT *Larva cuprina* larvae. 849.  
**Tilia europaea** L. (European linden tree).  
Acetone ext. of flowers and leaves 50% T mosquito larvae. 643A, 933B.  
**Tilia tomentosa**. (Silver linden tree).  
Powders and volatile constituents of flowers T ants. 643A.  
**Tillandsia usneoides** L.  
This species contains rotenone. 933B.  
Timbo blanco, see *Lonchocarpus* sp.  
Timbo melancia, see *Timbo vermelho*.  
Timbo pau, see *Lonchocarpus* sp.  
Timbo vermelho. (*Timbo melancia*).  
Roots reported to contain rotenone. 759.  
Ti-tree oil.  
Used against *Lucilia cuprina*, *L. sericata*, and *Calliphora vicina*. 918.  
Treadbox, common, see *Linaris vulgaris*.  
Tobacco, Aztec, see *Nicotiana rustica*.  
Tobacco, common, see *Nicotiana tabacum*.  
Tobacco, Indian, see *Lobelia inflata*.  
Tobacco, tree, see *Nicotiana glauca*.  
Tomato, see *Lycopersicon esculentum*.  
Tonka bean, see *Dipteryx odorata*.  
**Tournefortia hirsutissima** L.  
Used as general insecticide in Haiti. 933B.  
**Tournefortia volubilis** (L.) R. and S.  
Powdered leaves used as insecticide, especially effective against ticks. 933B.  
**Toxicodendron radicans** (L.) Kuntze. (*Rhus toxicodendron* L.).  
Ext. tested in sprays against adult mosquitoes were much inferior to standard mosquitoicide. 933B.

- Toxylon pomiferum*, see *Maclura pomifera*.  
*Trachylobium hornemannianum* Heyn. (Zanzibar copal tree).  
 Resin used with an odorous insecticidal material in impregnating wood to form an artificial cedar board or "mothwood." 933B.  
*Tragacanth aleppo*.  
 Acetone ext. of gum NT mosquito larvae. 645.  
*Tragia* sp.  
 Insecticidal plant occurring in Nicaragua. 933B.  
*Trichilia cuneata* Radlk.  
 Infusion of leaves T itch mites and other parasites of skin. 933B.  
*Trichilia trifoliata*, see *Walsure piscidia*.  
*Trichosanthes* sp.  
 Acetone ext. of seeds T mosquito larvae. 645.  
*Trifolium agrarium* L. (Hop clover).  
 Exts. were not repellent to Japanese beetle. 933B.  
*Trifolium arvense* L. (Rabbitfoot clover).  
 Exts. were not repellent to Japanese beetle. 933B.  
*Trigonella fenum-graecum* L. (Fenugreek).  
 Exts. were not repellent to Japanese beetle. 933B.  
*Trilisa odoratissima* (Walt.) Cass. (Carolina-vanilla).  
 Leaves T moth. 933.  
*Trillium erectum* L. (Purple trillium).  
 Exts. from dry rhizomes and roots were more or less repellent to Japanese beetle. 933B.  
*Tripterodendron filicifolium* Radlk.  
 Stems and leaves used as fish poison. 795.  
*Tripterygium forrestii* Loes.  
 26.88% T codling moth, but gave low mortality to other insects. 837.  
*Tripterygium wilfordii*. (Chinese thunder god vine).  
 Roots T codling moth and several other lepidopterous insects. 643A, 1143, 1144.  
*Triticum* sp. (Wheat).  
 Used as insecticide against red spider; NT roaches and chicken lice. 933.  
*Tropaeolum majus* L. (Common nasturtium).  
 Acetone ext. of leaves and stems T mosquito larvae. 645, 933.  
 Trumpet, angel-, see *Datura metel*.  
*Tsiskocena*.  
 Water ext. ST silkworms. 933.  
*Tsuga canadensis* Carr. (Canada hemlock).  
 Water ext. of needles 10% T mosquito larvae. 643A.  
 Tuat oil.  
 Tested against *Lucilia cuprina*, *L. sericata*, and *Calliphora stygia* as stomach poison. 918.  
 Tuba-buah-daun, see *Diospyros wallichii*.  
 Tuba cherok, see *Dioscorea piscatroum*.  
 Tuba hantu.  
 5% Water ext. of roots 40% T larvae of *Parasa herbifera*. 933B.  
 Tuba janirok.  
 5% Water ext. of roots 100% T larvae of *Parasa herbifera*. 933B.  
 Tuba kupak, see *Coscinium blumeianum*.  
 Tuba riam.  
 5% Water ext. of roots NT *Parasa herbifera*. 933B.  
 Tuba sasan.  
 5% Water ext. of roots NT *Parasa herbifera*. 933B.  
 Tuba tapah.  
 5% Water ext. of roots 20% T *Parasa herbifera*. 933B.  
 Tulip, common, see *Tulipa gesneriana*.  
 Tulip tree, see *Liriodendron tulipifera*.  
 Tulip tree of India, see *Thespesia populnea*.  
 Tulipa gesneriana L. (Common tulip).  
 Exts. were not repellent to Japanese beetle. 933B.  
 Tung-oil tree, see *Aleurites fordii*.  
 Tupelo, see *Nyssa sylvatica*.  
 Turkey red oil, see *Ricinus communis*.  
 Turkeymullen, see *Eremocarpus setigerus*.  
 Turmeric, see *Curcuma longa*.  
 Turnip, Indian, see *Arisema dracontium*.  
 Turpentine, see *Pinus longifolia*.  
 Turtlehead, see *Chelone glabra*.  
 Tussilago farfara. (Coltsfoot).  
 Water ext. of root 70% T mosquito larvae. 643A.  
 Twineaf, see *Jeffersonia diphylla*.  
*Tylophora asthmatica* (Willd.) W. and A.  
 5% Alch. ext. of whole plant 50% T *Achaena janata* and 10% ext. 100% T; 20% water suspension of powdered whole plant 40% T nymphs of mango hoppers. 933B.  
*Tylophora fasciculata* Ham.  
 Leaves and roots T rats and other vermin. 933.  
*Typha angustifolia* L. (Narrowleaf cattail).  
 Exts. were not repellent to Japanese beetle. 933B.  
*Typha latifolia* L. (Common cattail).  
 Exts. were not repellent to Japanese beetle. 933B.  
*Ulex europaeus* L. (Gorse).  
 2% And 1% crude alch. exts. of seeds 100% and 55% T bean aphids, while an 0.08% nicotine solution was 98% T. 933B.  
*Ulmus americana* L. (American elm).  
 Water ext. of leaves 10% T mosquito larvae. 643A.  
*Umbellularia californica* (Hook. and Arn.) Nutt. (*Oreodaphne californica* Nees; California laurel).  
 Leaves appeared to be valuable repellent to fleas. 933B.  
*Uncaria gambir* Roxb. (*Ououparia gambia* (Hunter) Bailion; gambier).  
 Commercial ext. was repellent to Japanese beetle. 933B.  
*Unifolium canadense*, see *Maianthemum canadense*.  
*Uraria picta* Desv.  
 Exts. applied as sprays against adult mosquitoes were much inferior to standard mosquitocide. 933B.  
*Urginea maritima* Baker. (*U. scilla* Steinh.; *Scilla maritima* L.; squill; sea onion).  
 Sprays containing exts. of squill and a male fern *T. Cochylis* and *Eudemis* on grapevines in France; extractum scillae (10% in water) NT *Prodenia litura*; exts. of bulbs 20% T mosquito larvae; exts. were not repellent to Japanese beetle. 643A, 933B.  
*Uvaria latifolia*, see *Melodorum latifolia*.  
*Uvularia perfoliata* L. (Wood merrybells).  
 Exts. were not repellent to Japanese beetle. 933B.  
*Vaccinium* sp. (Blueberry).  
 Exts. from leaves and berries were repellent to Japanese beetle. 933B.  
*Vagnera trifolia*, see *Smilacina trifolia*.  
*Valeriana officinalis* L. (Valerian).  
 Acetone ext. of root T mosquito larvae; oil 79-60% T *Lucilia cuprina* larvae. 645, 849.  
 Vanilla, Carolina-, see *Trilisa odoratissima*.  
*Vanilla planifolia* Andrews. (Vanilla bean).  
 20% T body louse. 933B.  
*Vateria indica* L.  
 An effective and cheap viscous adhesive for banding to prevent ants from reaching crowns of trees was prepared with 10 oz. powdered Manila gum copal (gum of this species), 1 pt. castor oil, and 1 oz. beeswax. 933B.  
 Velvet tree, see *Phellodendron amurense*.  
*Ventilago madraspatana* Gaertn.  
 Powdered bark, mixed with gingelly oil, used in southern India as external application for itch and other skin diseases. 933B.  
*Veratrum album* L. (White false-hellebore).  
 T roaches and silkworms. 933.  
*Veratrum album viride*, see *Veratrum viride*.  
*Veratrum californicum* Durand.  
 Powdered roots NT grasshoppers. 933.  
*Veratrum nigrum* L. 933.  
*Veratrum officinale*, see *Schoenocaulon officinale*.  
*Veratrum viride* Ait. (*V. album viride* Baker; American false-hellebore; green hellebore).  
 This species contains alkaloids which are very toxic to a number of insects. 491, 933.  
*Veratrum* spp.  
 Powdered roots (*V. album* and *V. viride*) have been proved to prevent the emergence of houseflies from horse manure, being 95.5% T maggots exposed to its action. 933B.  
*Verbascum blattaria* L. (Moth mullein).  
 Used as dust ST roaches and tent caterpillars; used as stomach poison ST grasshoppers. 933.  
*Verbascum phlomoides*. (Clasping mullein).  
 Acetone ext. of flowers T mosquito larvae. 645.  
*Verbascum thapsiforme*. (Wool mullein).  
 Acetone ext. of flowers T mosquito larvae. 645.  
*Verbascum thapsus* L. (Flannel mullein).  
 Acetone ext. of leaves NT mosquito larvae; NT cotton caterpillars. 645, 933.

- Verbena hastata*. (Blue verbena).  
Acetone ext. of whole plant 80% T mosquito larvae. 643A.
- Veronica anthelmintica* (L.) Willd.  
Bruised seeds employed as means of destroying pediculi. 933.
- Vernonia noveboracensis* (L.) Willd. (Common iron-weed).  
Alch. ext. and decoction NT cotton caterpillars. 933.
- Veronica officinalis* L. (Speedwell).  
Exts. were not repellent to Japanese beetle. 933B.
- Veronicastrum virginicum*. (*Veronica virginica*; culver's root).  
Water ext. of root 15% T mosquito larvae. 643A.
- Vertiver*, foreign, oil of.  
50-40% T *Lucilia cuprina* larvae. 849.
- Vetch, hairy, see *Vicia villosa*.
- Vetiveria zizanioides* (L.) Nash. (*Andropogon squarrosus* Urb.; cuscus grass; vetiver).  
In Gold Coast, Africa, dried roots of grass when placed among clothes, prevented insect attack; an ointment prepared from oil was employed in removing pediculi from hair; roots used as insecticide. 933B.
- Viburnum dentatum* L. (Arrow-wood).  
Exts. were not repellent to Japanese beetle. 933B.
- Viburnum prunifolium*. (Black haw).  
Acetone and water ext. of root bark 30% T mosquito larvae. 643A.
- Vicia villosa* Roth. (Hairy vetch).  
Exts. were not repellent to Japanese beetle. 933B.
- Vine, kudzu, see *Pueraria hirsuta*.
- Vine, matrimony, see *Lycium halimifolium*.
- Vine, thunder god, see *Tripterygium wilfordii*.
- Viola papilionacea* Pursh. (Butterfly violet).  
Exts. were not repellent to Japanese beetle. 933B.
- Viola tricolor* L. (Common pansy).  
Exts. were not repellent to Japanese beetle. 933B.
- Violet, butterfly, see *Viola papilionacea*.
- Vitex agnus-castus* L. (Lilac chastetree).  
Branches of this tree were hung in huts, as flies are said to avoid this species. 933.
- Vitex negundo* L. (Negundo chastetree; nochi).  
Leaves scattered among clothes are said to preserve them from attack by insects; 5% alch. ext. of leaves 90% T *Plutella maculipennis*, 50-75% T *Prodenia litura*, 20% T *Coridolomia binotalis*, and 100% T *Euprotia fraterna*, *Perculia ricini*, and *Achaea jonata*. 933B.
- Vitis hederaea*, see *Parthenocissus quinquefolia*.
- Vitis setosa* Wall.  
Exts. applied as sprays against adult mosquitoes were much inferior to standard mosquitocide. 933B.
- Volkameria infortunata*, see *Clerodendrum infortunatum*.
- Wafer ash, see *Ptelea trifoliata*.
- Wahoo, see *Euonymus atropurpureus*.
- Walnut, black, see *Juglans nigra*.
- Walnut, Persian, see *Juglans regia*.
- Walsura piscidia* Roxb. (*Trichiba trifoliata* Wall.).  
Arabs used fruit in hair wash to kill vermin and in an ointment to cure itch. 933B.
- Watermelon, see *Citrullus vulgaris*.
- Wattle, Sydney, see *Acacia longifolia*.
- Waxmyrtle, southern, see *Myrica cerifera*.
- Weed, bugle, see *Lycopus virginicus*.
- Weed, jimson, see *Datura stramonium*.
- Weed, pinkerl, see *Pontederia cordata*.
- Weed, smart, see *Polygonum pennsylvanicum*.
- Weeds. (Species not stated).  
Powder kills mechanically rather than by poisoning larvae of mosquito. 933.
- Wheat, see *Triticum* sp.
- White fringetree, see *Chionanthus virginica*.
- Wickstroemia nutans Champ.  
Gave low mortality to several species of insects. 837.
- Willow, black, see *Salix nigra*.
- Winterberry, common, see *Ilex verticillata*.
- Winterress, latter, see *Barbarea vulgaris*.
- Wintergreen, see *Gaultheria procumbens*.
- Witch-hazel, see *Hamamelis virginiana*.
- Withania somnifera* Dunal. 933.
- Woadwaxen, see *Genista tinctoria*.
- Wood flour. (Wood meal).  
Used for mothproofing purposes. 337P, 397P, 432P, 467P, 643P, 1175, 1176.
- Wood-sorrel, yellow, see *Oxalis stricta*.
- Wormseed, see *Chenopodium ambrosioides*.
- Wormseed, levant, see *Artemisia pauciflora*.
- Wormwood, common, see *Artemisia absinthium*.
- Xanthium strumarium* L. (Cocklebur).  
Decoction and alch. ext. NT cotton caterpillars. 933.
- Xanthorhiza simplicissima*. (*X. apifolia*; yellow root).  
Acetone and water ext. of root 5% T mosquito larvae. 643A.
- Xanthorrhoea hastilis* R. Br. (Black-boy tree).  
An Australian patent recommends washing sheep with mixture of 100 parts oil obtained by destructive distillation of black-boy or yacca-gummi, and 50 parts of fish oil. 933B.
- Xanthoxylum*, see *Zanthoxylum*.
- Ximenia americana* L. (*X. inermis* L.; *X. spinosa* Salisb.; tallow-nut; tallowwood).  
to sores of domestic animals to keep off flies. 933.
- Xylocarpus corapa*, see *Carapa guianensis*.
- Xyris indica* L.  
Used as remedy for itch in India. 933B.
- Yaboot.  
Roots tested in preliminary manner for insecticidal value. 933B.
- Yam, wild, see *Dioscorea villosa*.
- Yarrow, camphir, see *Achillea nobilis*.
- Yarrow, common, see *Achillea millefolium*.
- Yellow root, see *Xanthorhiza simplicissima*.
- Yerba de la pulga, see *Helenium* sp.
- Yerba santa, see *Eriodictyon californicum*.
- Yew, Japanese, see *Taxus cuspidata*.
- Ylang ylang, see *Cananga odorata*.
- Zanthoxylum americanum* Mill. (Prickly-ash).  
Exts. from dried bark were repellent to Japanese beetle; acetone ext. of berries 60% T mosquito larvae. 643A, 933B.
- Zanthoxylum clava-herculis* L. (*Z. carolinianum* Lam.; *Z. fraxinifolium* Walt.; *Z. triacarpum* Michx.; *Fagara clava-herculis* Small; hercules-club).  
Acetone ext. of bark T mosquito larvae; HT house-flies; powdered leaves obnoxious to cotton caterpillars. 645, 820, 933.
- Zanthoxylum hamiltonianum* Wall. (Tea-moora).  
Roots used as fish poison; boiled fresh solution of roots T mosquito larvae. 933B.
- Zanthoxylum piperitum* DC. (Japanese pepper).  
Upper layer of a pyrethrum ext., mixed with cresote or camphor oil, paradichlorobenzene, and seed oil of this plant, used as insecticide. 933B.
- Zanthoxylum triacarpum*, see *Zanthoxylum clava-herculis*.
- Zanzibar copal tree, see *Trachylebium hornemannianum*.
- Zea mays L. (Indian corn).  
Oil T cockroach, Colorado potato beetle, and Mexican bean beetle eggs; T *Phenacoccus gossypii*. 78, 295, 933, 1170.
- Zedoary, see *Curcuma zedoaria*.
- Zedus muscitolivum*, see *Amiantium muscotoxicum*.
- Zigadenus venenosus* S. Wats.  
Powders from roots, stems, and leaves and hot-water exs. from them NT grasshoppers, webworms, and potato beetle larvae, and only ST silkworms. 933.
- Zinkiber officinale*. (Jamaica ginger).  
Acetone ext. of root T mosquito larvae; oil MT *Lucilia cuprina* larvae. 645, 840.

## MISCELLANEOUS PLANT PRODUCTS

### Bromopicrotoxinin.

Gave low toxicity against several insects. 928.

### Helianthin.

NT green peach aphid at 1.0%; 34% T Mexican bean beetle; at 5.0% NT American cockroach and 10% T adult housefly. 928.

### Isoquassin.

NT green peach aphid at 1.0%; 18% T adult Mexican bean beetle; at 5.0% NT adult housefly. 928.

### Latex.

NT *Sitodrepa panicea*. 750.

Peat extract, in EtOH. 588P.

Peat extract, in MeOH. 588P.

### Picrotoxin.

NT green peach aphid, adult Mexican bean beetle, American cockroach, and adult housefly. 928.

### Quassin.

NT green peach aphid, adult Mexican bean beetle, American cockroach, and adult housefly. 928.

Sulfonic acids. 513, 1432.





# REFERENCES and AUTHOR INDEX

- Arranged in Numerical Order  
and Alphabetically by Authors
- (The number preceding each citation is the reference number: AIP = Australian Patent; AP = Austrian Patent; BeP = Belgian Patent; BP = British Patent; CP = Canadian Patent; DP = Dutch Patent; FP = French Patent; GP = German Patent; HP = Hungarian Patent; JP = Japanese Patent; RP = Russian Patent; SeP = Swedish Patent; SP = Swiss Patent; USP = United States Patent).
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